



Thursday, 04 March 2021

Issue: 1246

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)	1711	222	1933	246	2179
Storage Change (GWh)	-61	-21	-82	-30	-112

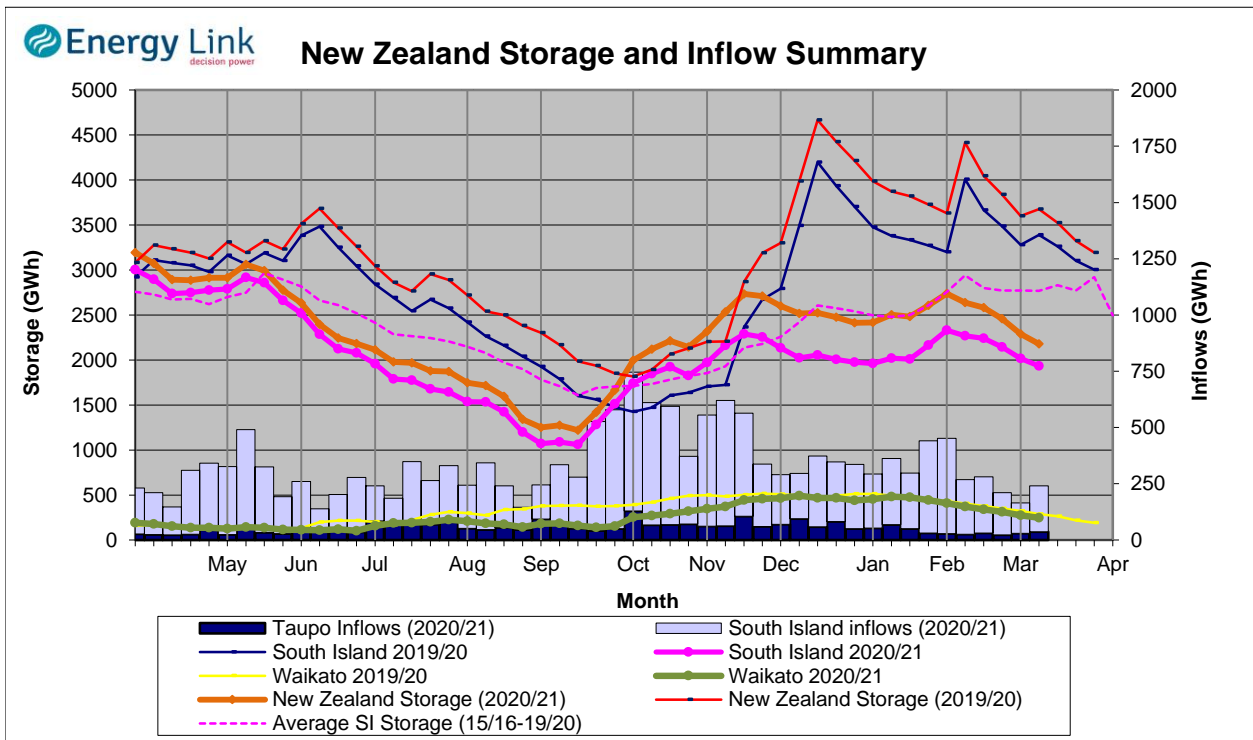
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	1868	246	2114

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 111.7 GWh over the last week. South Island controlled storage decreased 3.5% to 1711 GWh; South Island uncontrolled storage decreased 8.5% to 222 GWh; with Taupo storage decreasing 10.8% to 246 GWh.



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Storage (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	157	244	1533	246	2179
Last Week	180	251	1585	275	2291
% Change	-12.4%	-3.0%	-3.3%	-10.8%	-4.9%
Inflow (GWh)	Manapouri	Clutha	Waitaki	Waikato	NZ
This Week	39	41	124	36	241
Last Week	28	28	79	29	165
% Change	38.9%	47.0%	57.2%	22.7%	46.2%

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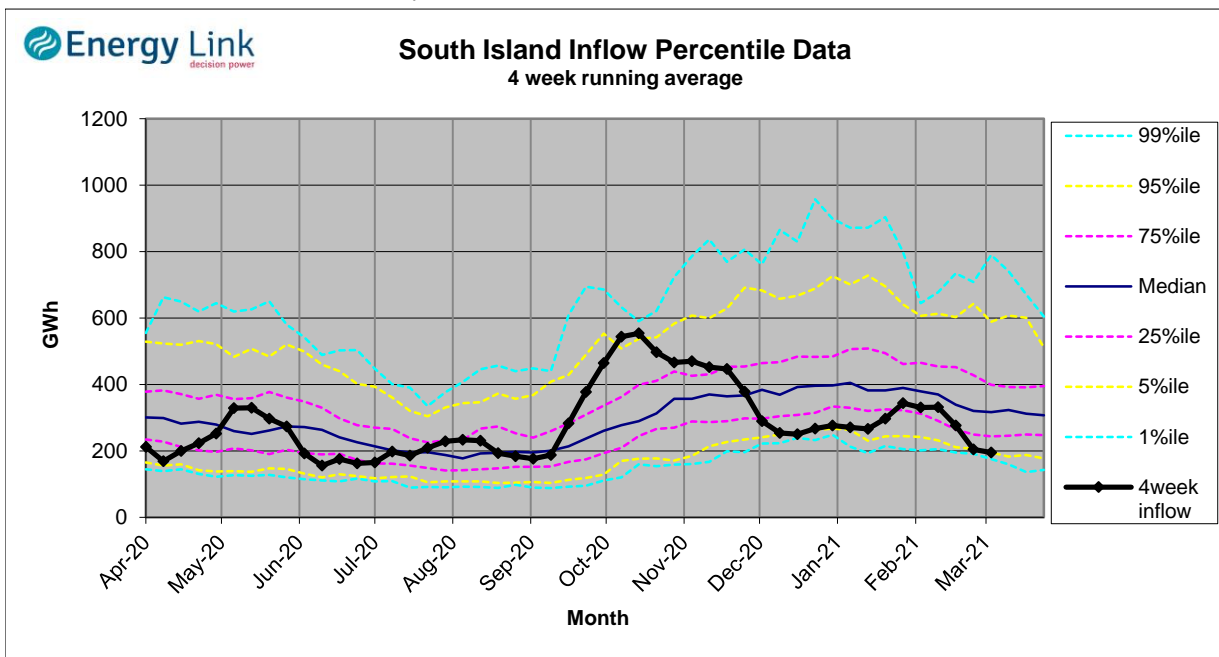
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	176.93	63	20	3
	Te Anau	201.49	94		
Clutha	Wakatipu	309.65	30	100	-10
	Wanaka	276.78	35	127	
	Hawea	342.90	179	88	
Waitaki	Tekapo	707.76	559		-11
	Pukaki	525.99	973		
Waikato	Taupo	356.45	246		9

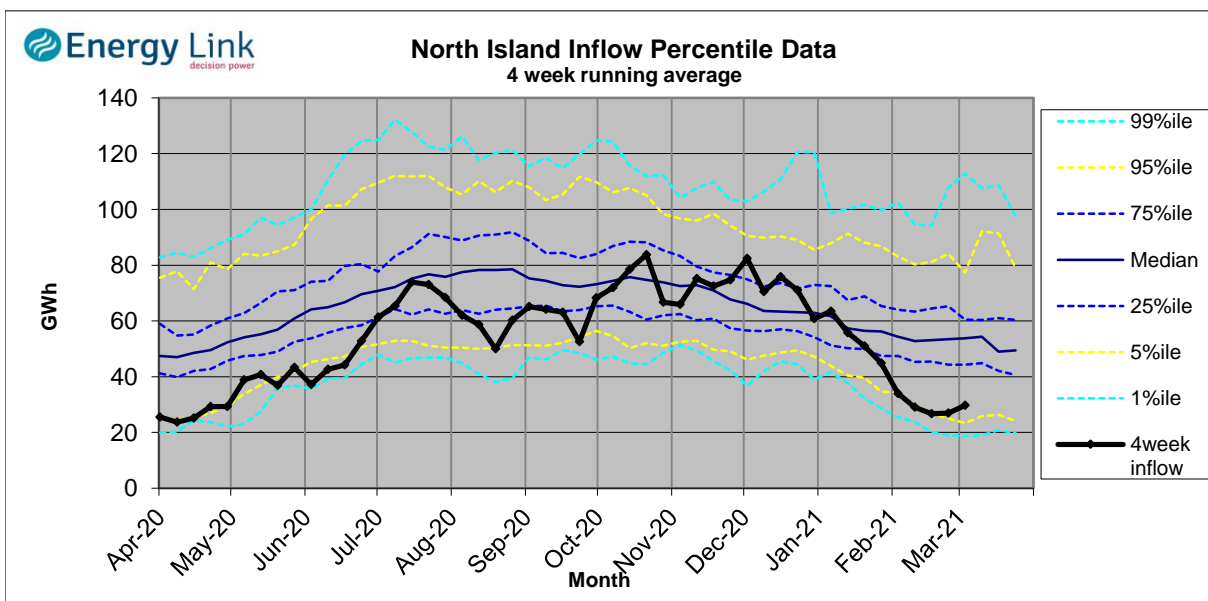
Inflow Summary

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.

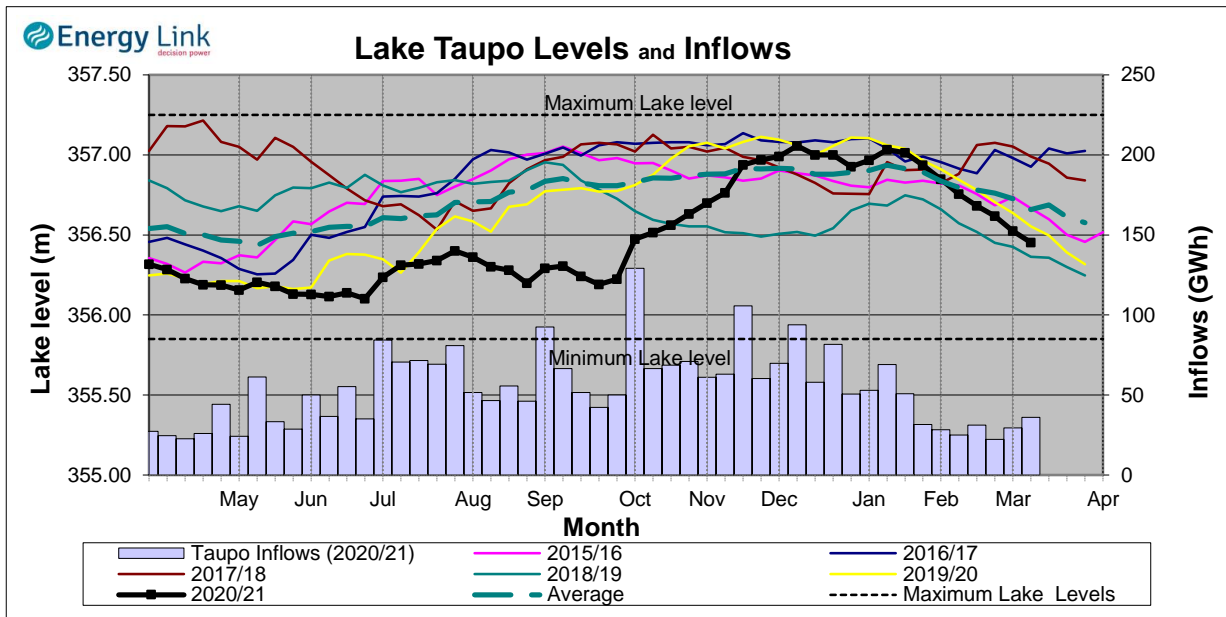
South Island Inflows - The past four weeks of S. I. inflows rank as the 5th driest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 9th driest on record.



Waikato System

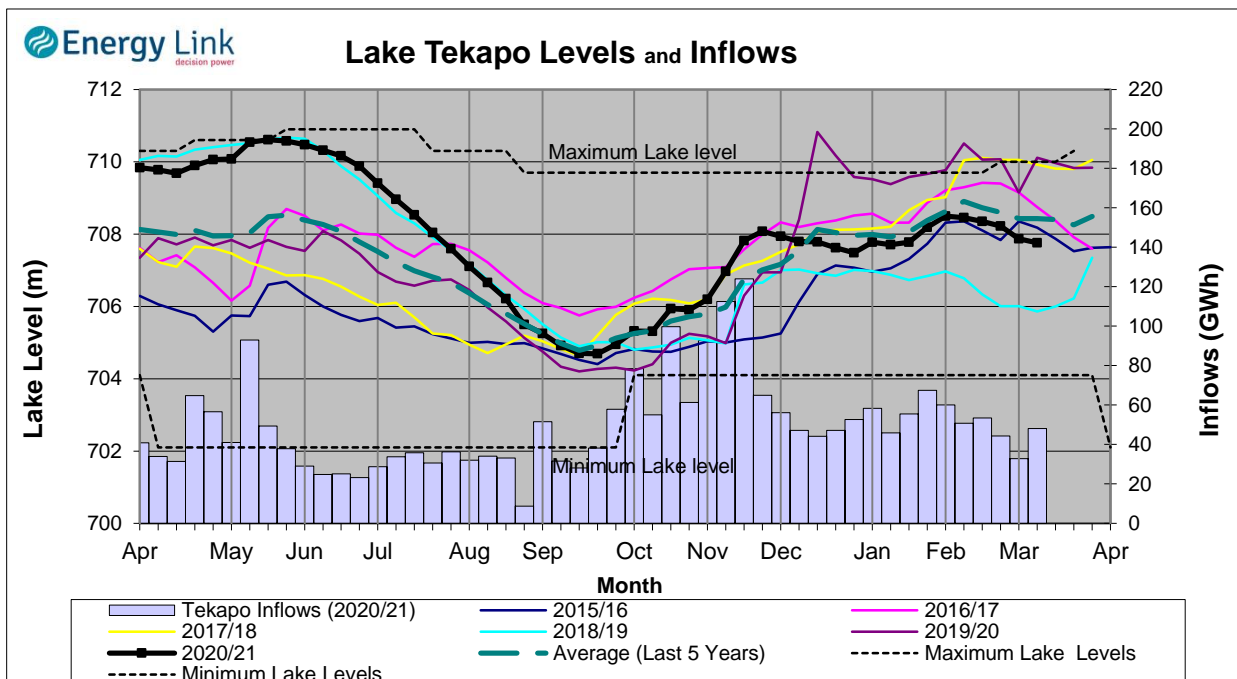


Lake Levels - Lake Taupo storage fell to 43% of nominal full at 246 GWh.

Inflows - Inflows increased 22.7% to 36 GWh.

Generation - Average generation increased 6.9% to 428.7 MW.

Tekapo



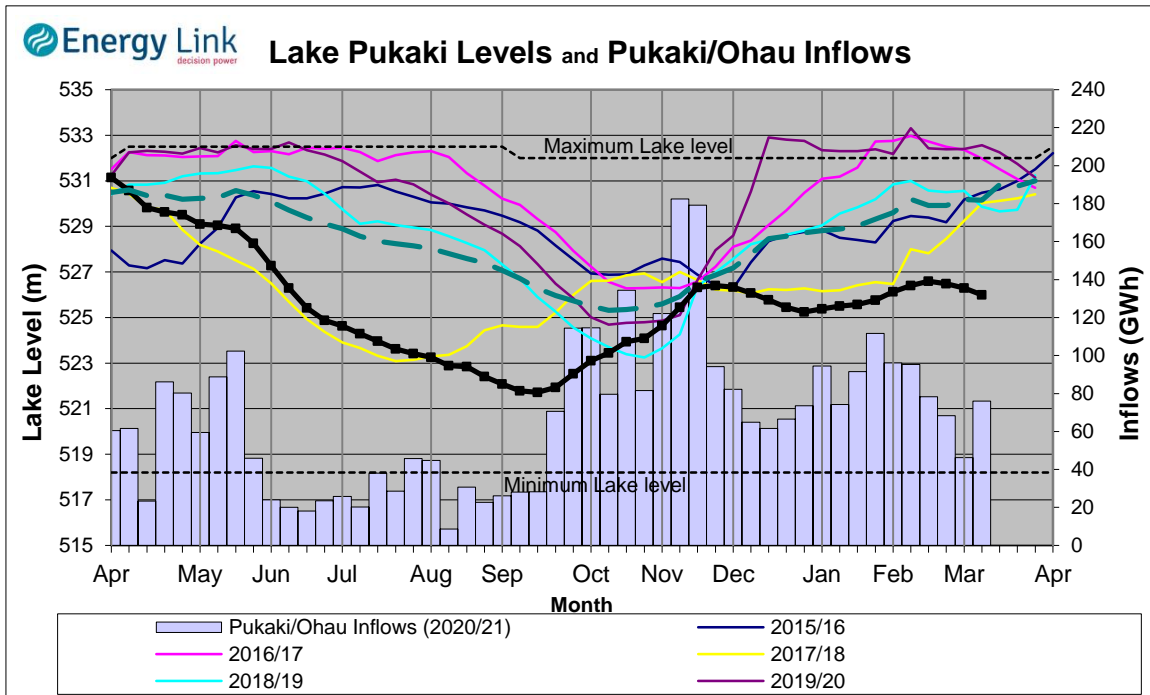
Lake Levels - Lake Tekapo ended the week 77% nominally full with storage falling to 559 GWh.

Inflows - Inflows into tekapo increased 46.9% to 48 GWh.

Generation - Average Tekapo generation decreased 14.6% to 126.6 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 55% nominally full with storage falling to 973 GWh.

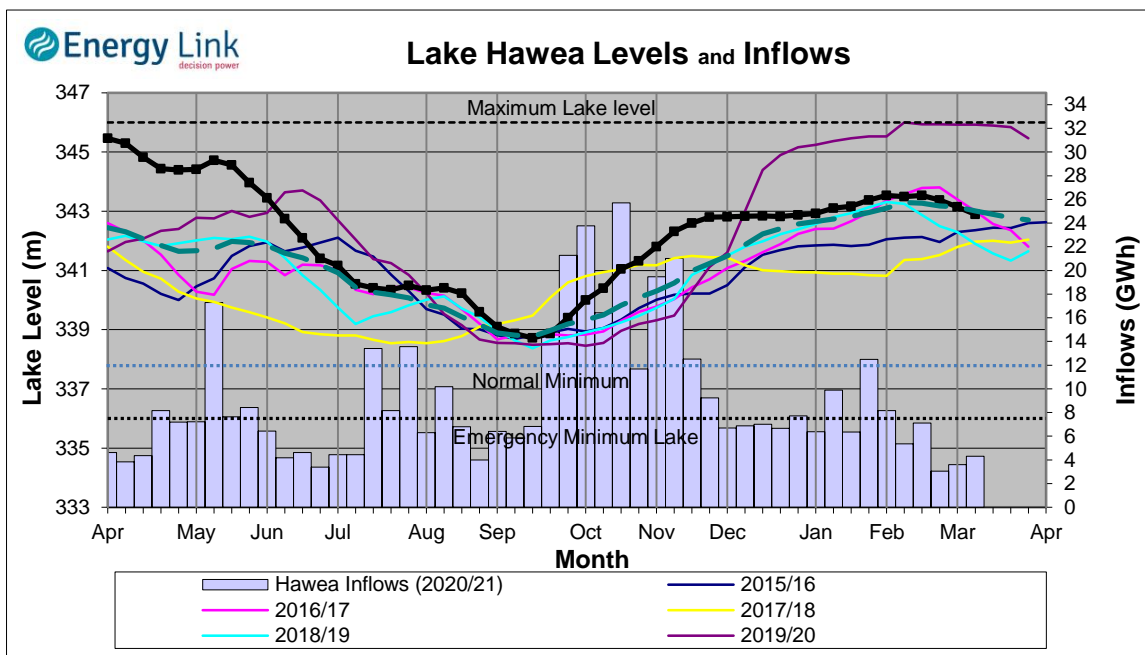
Inflows - Inflows into the Waitaki System increased 64.6% to 76 GWh.

Generation - Average Waikati generation increased 18.6% to 982.9 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River fell to 8.8 cumecs while Waitaki River flows were higher than last week averaging 376.7 cumecs.

Clutha System



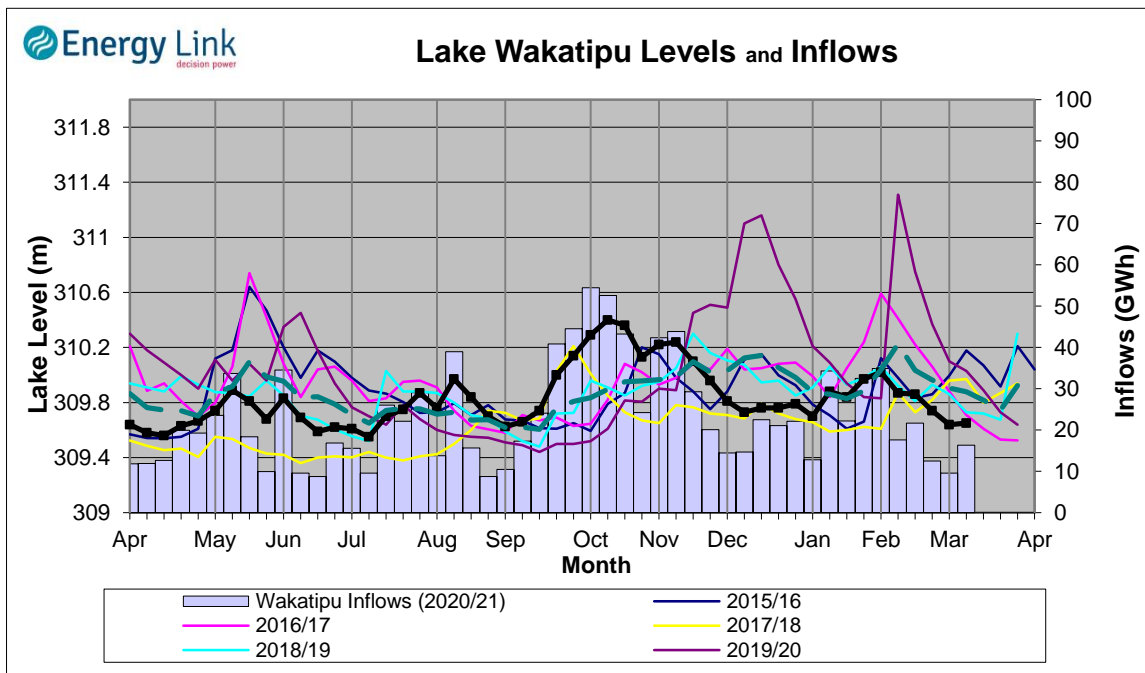
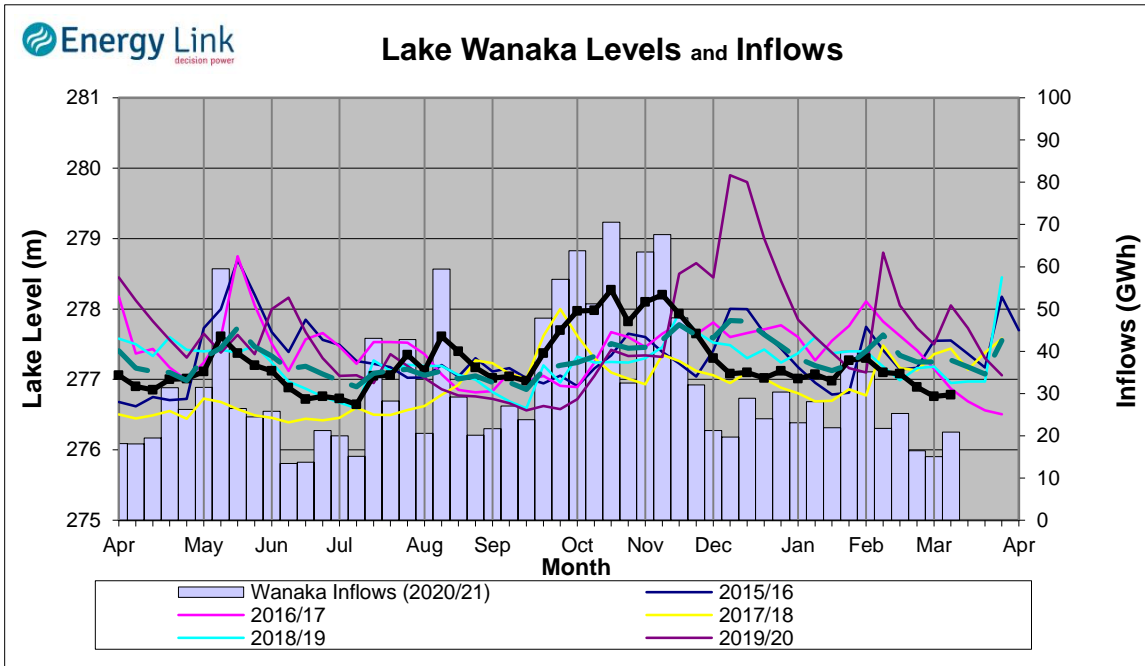
Lake Levels - Total storage for the Clutha System decreased 3% to 244 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 60.5%, 30.3% and 28.6% nominally full respectively.

Inflows - Total Inflows into the Clutha System 47% higher at 41 GWh.

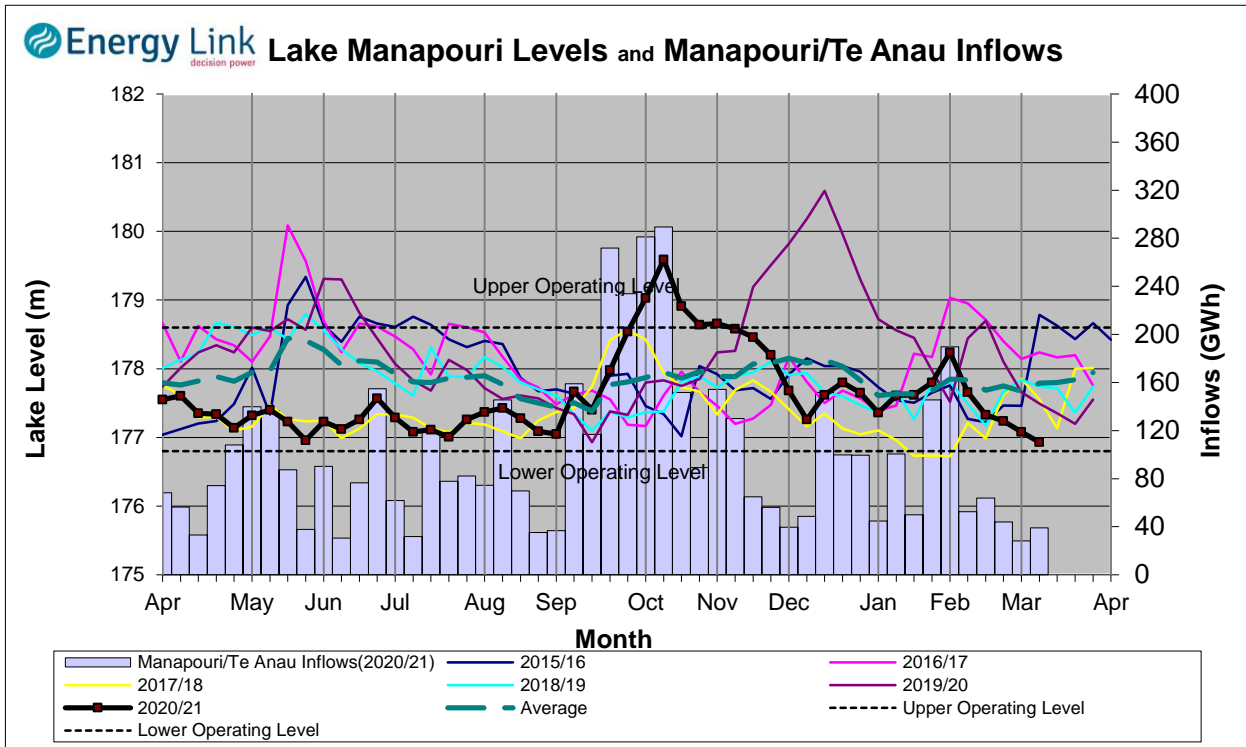
Generation - Average generation was 7.6% lower at 305 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River fell to 340 cumecs. This comprised of 88 cumecs from Lake Hawea, 127 cumecs from Lake Wanaka, 100 cumecs from Lake Wakatipu and 25 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System decreased 12.4% to 157 GWh with Lake Manapouri ending the week 38.8% nominally full and Lake Te Anau ending the week 34.2% nominally full.

Inflows - Total inflows into the Manapouri System increased 38.9% to 39 GWh.

Generation - Average generation was 18.1% lower at 366 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 20.3 cumecs.

Operating Range - Lake Manapouri is operating in the lower end of its 'Main operating range' while Lake Te Anau is operating in the upper end of its 'Low operating range'.

