



Thursday, 07 May 2020

Issue: 1203

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)	2486	432	2918	144	3063
Storage Change (GWh)	56	72	128	20	148

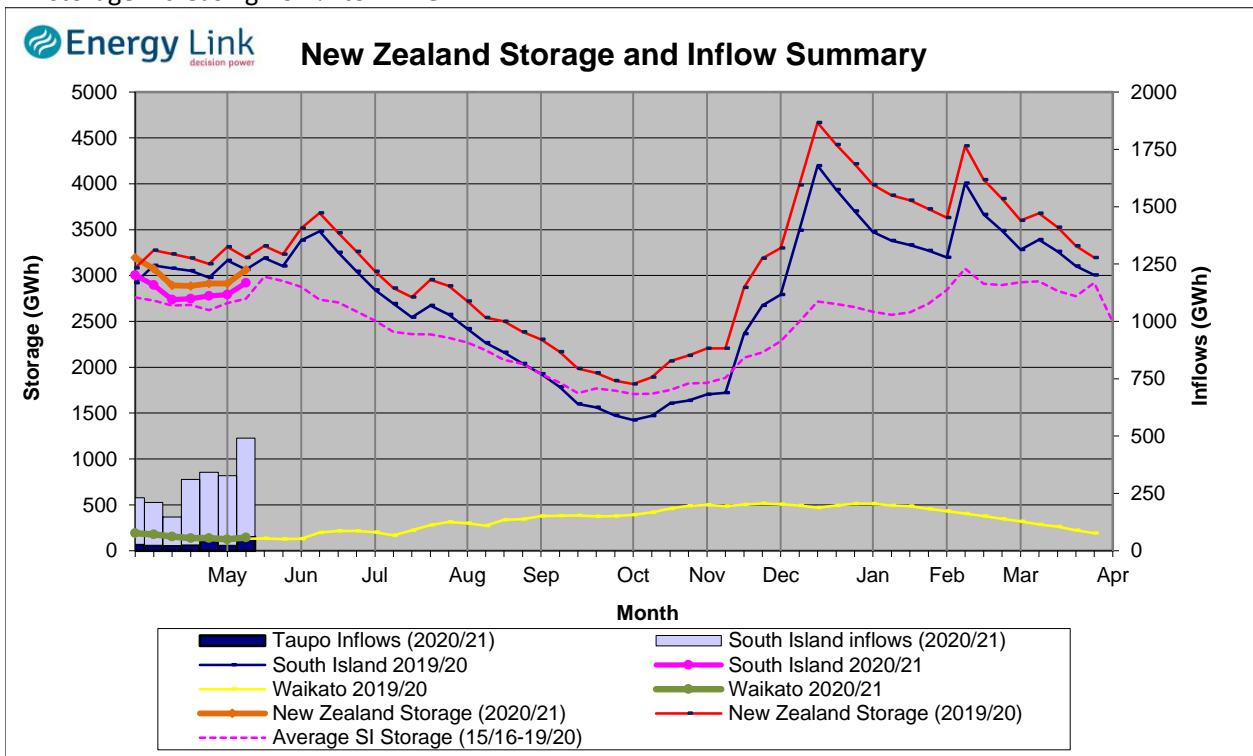
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu

Transpower Security of Supply	South Island	North Island	New Zealand
Current Storage (GWh)	2794	144	2938

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 148.3 GWh over the last week. South Island controlled storage increased 2.3% to 2486 GWh; South Island uncontrolled storage increased 20.1% to 432 GWh; with Taupo storage increasing 16.1% to 144 GWh.



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	Manapouri	Clutha	Waitaki	Waikato	NZ
Storage (GWh)					
This Week	308	371	2239	144	3063
Last Week	272	324	2195	124	2914
% Change	13.3%	14.7%	2.0%	16.1%	5.1%
Inflow (GWh)					
This Week	137	110	182	61	490
Last Week	140	62	100	24	327
% Change	-2.2%	77.5%	81.1%	153.9%	50.1%

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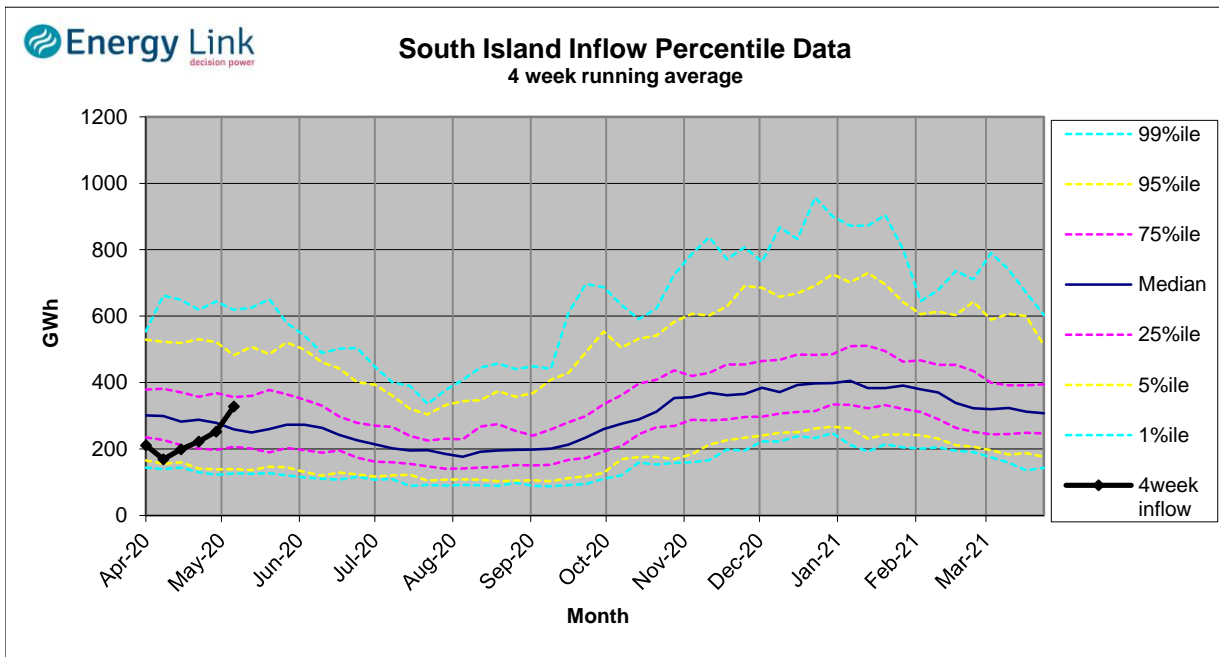
Lake Levels and Outflows

Catchment	Lake	Level (m. asl)	Storage (GWh)	Outflow (cumecs)	Outflow Change
Manapouri	Manapouri	177.40	91	40	
	Te Anau	202.31	217		
Clutha	Wakatipu	309.89	48	143	29
	Wanaka	277.61	76	222	52
	Hawea	344.72	247	38	-3
Waitaki	Tekapo	710.54	862		
	Pukaki	529.05	1378		
Waikato	Taupo	356.20	144		

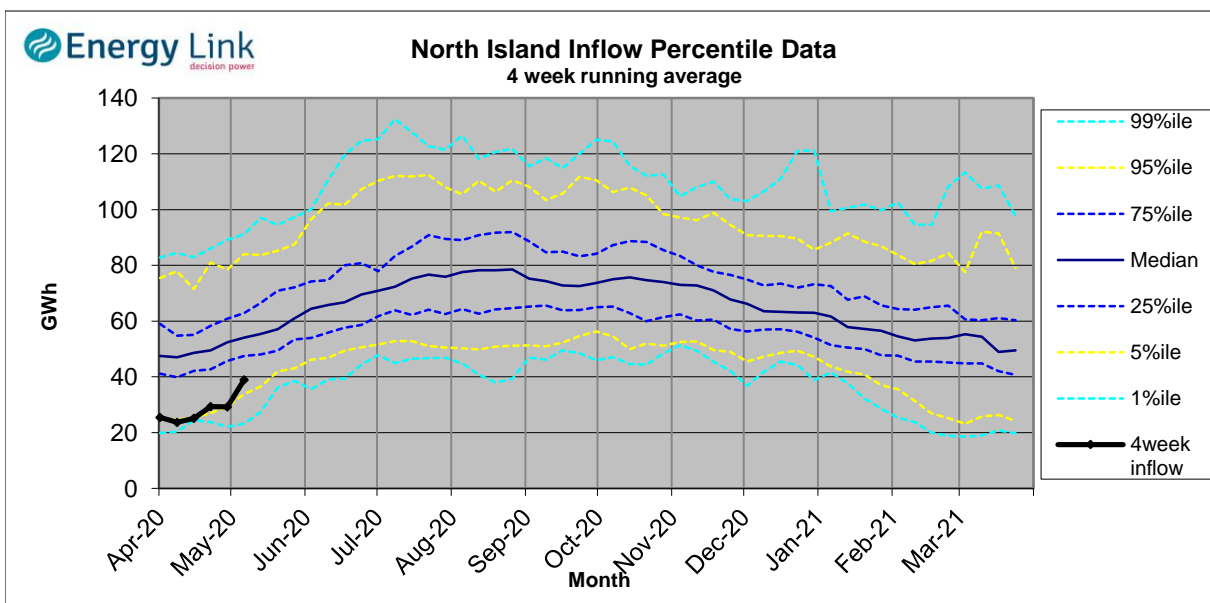
Inflow Summary

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.

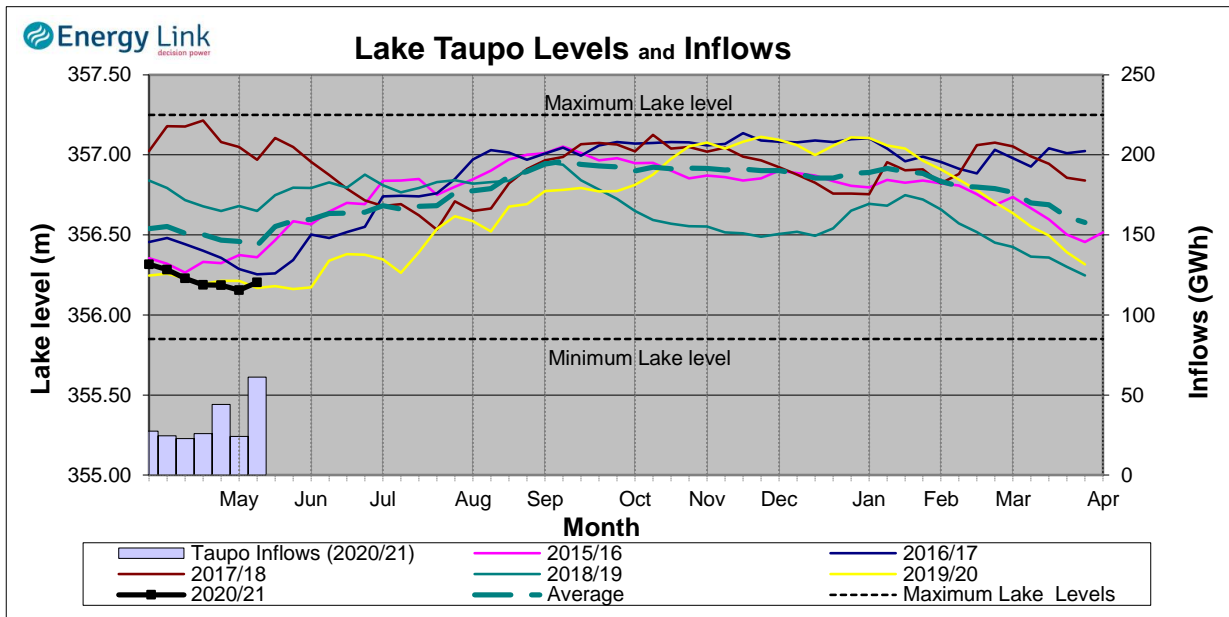
South Island Inflows - The past four weeks of S. I. inflows rank as the 31st wettest on record.



North Island Inflows - The past four weeks of N. I. inflows rank as the 10th driest on record.



Waikato System

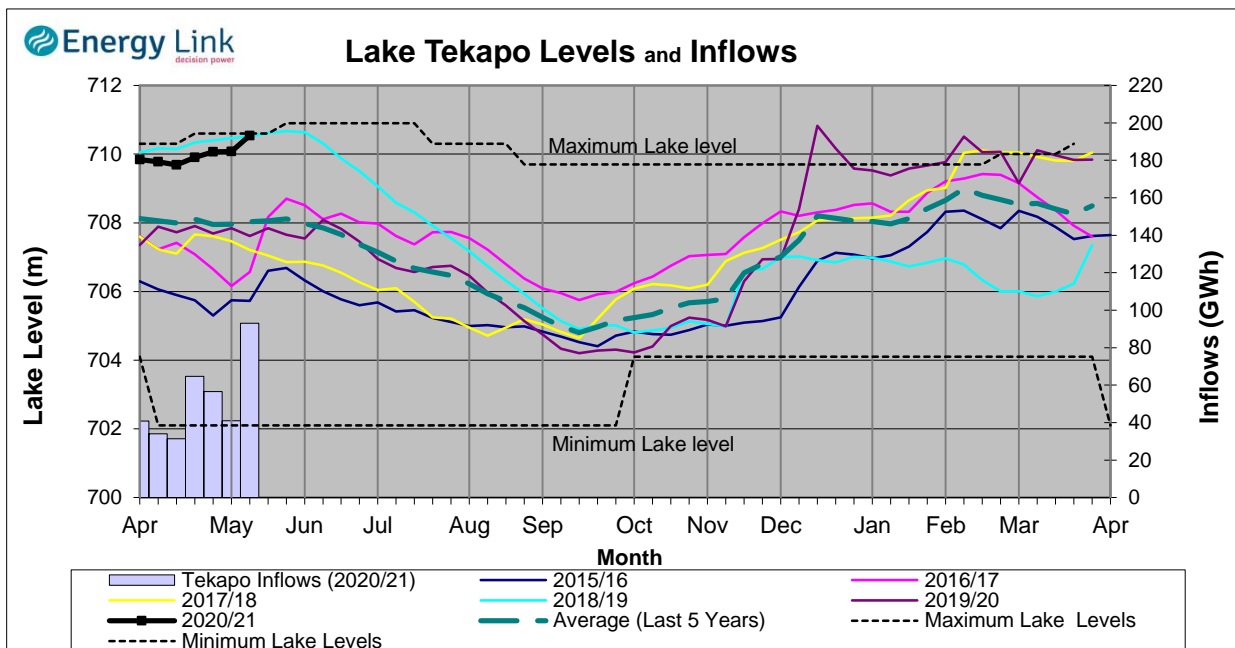


Lake Levels - Lake Taupo storage increased to 25.3% of nominal full at 144 GWh.

Inflows - Inflows increased 153.9% to 61 GWh.

Generation - Average generation increased 10% to 298.1 MW.

Tekapo



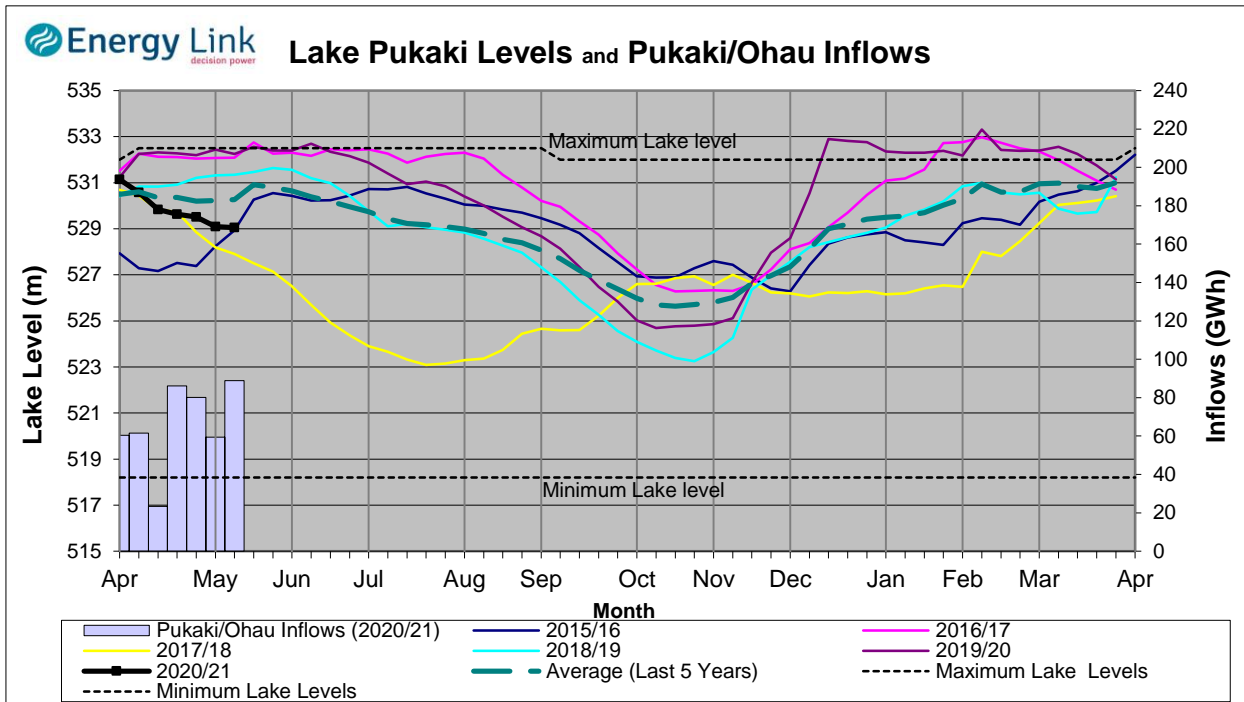
Lake Levels - Lake Tekapo ended the week 105% nominally full with storage increasing to 862 GWh.

Inflows - Inflows into tekapo increased 127.2% to 93 GWh.

Generation - Average Tekapo generation increased 6.8% to 75 MW.

Hydro Spill - Lake Tekapo did not spill.

Waitaki System



Lake Levels - Lake Pukaki ended the week 75% nominally full with storage falling to 1378 GWh.

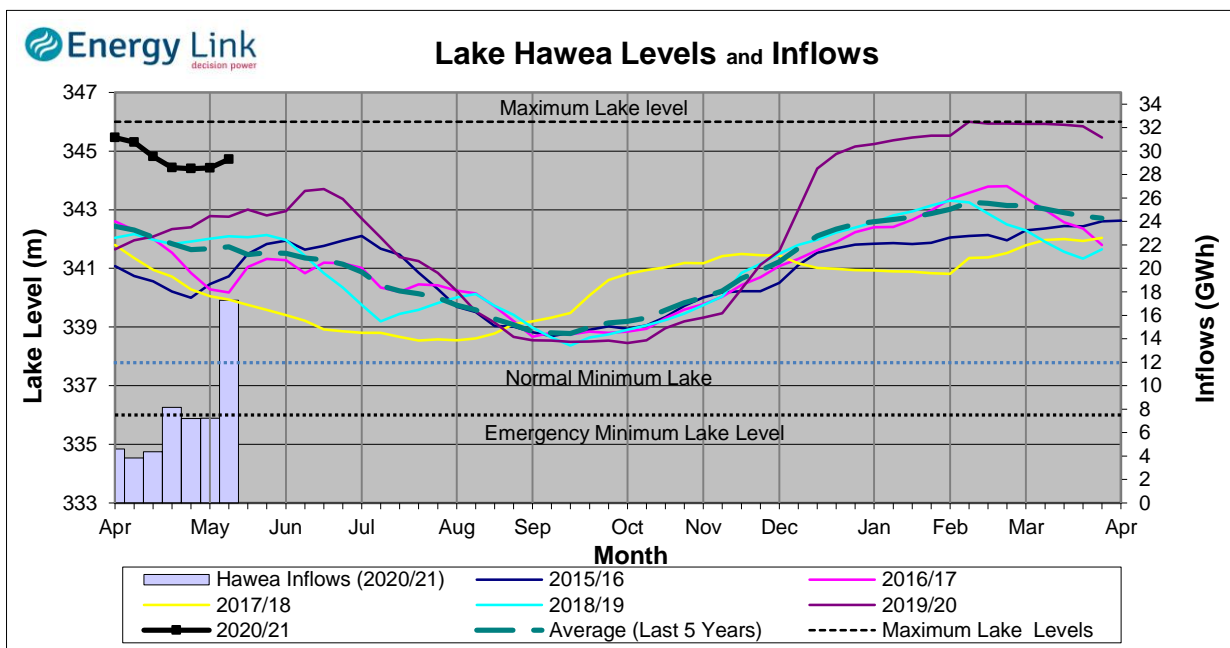
Inflows - Inflows into the Waitaki System increased 49.3% to 89 GWh.

Generation - Average Waikati generation decreased 6.4% to 850.3 MW.

Hydro Spill - Lake Pukaki did not spill.

River Flows - Flows from the Ahuriri River increased to 33.1 cumecs while Waitaki River flows were lower than last week averaging 365.1 cumecs.

Clutha System



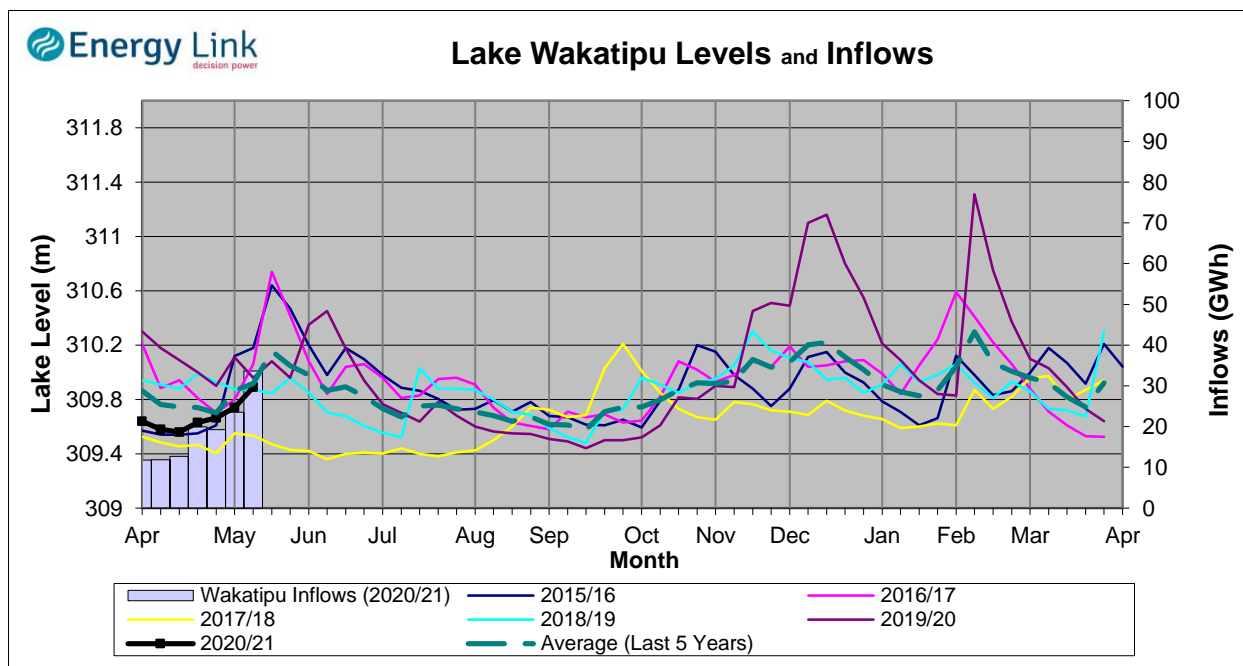
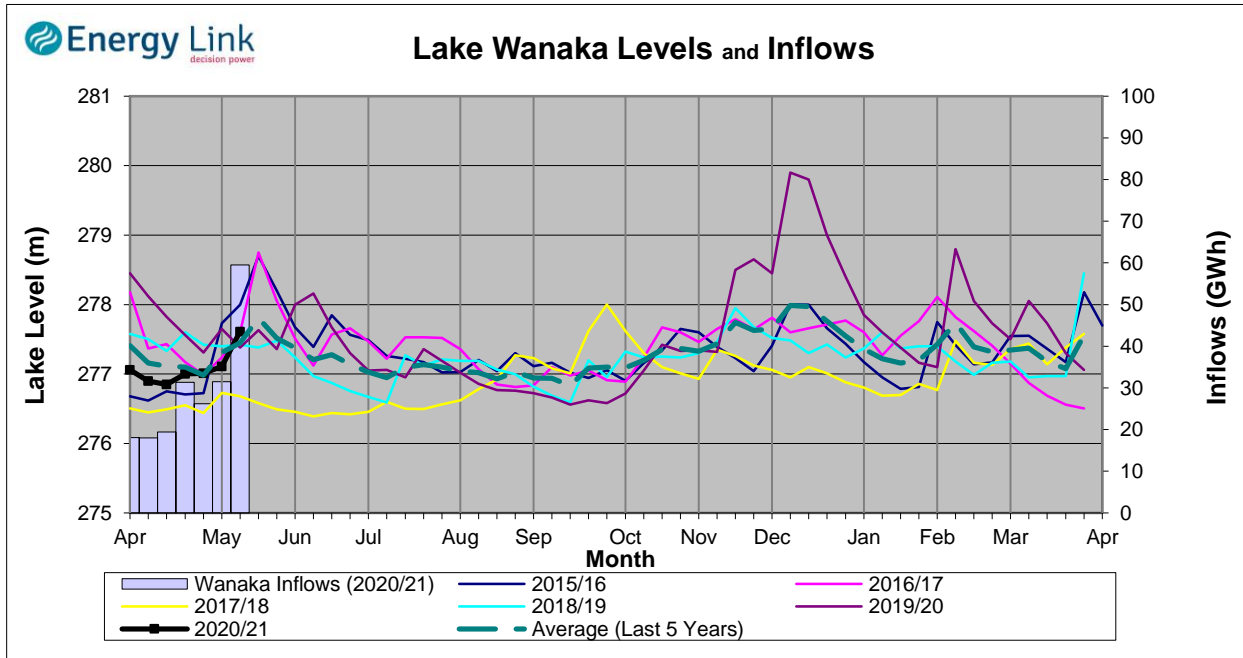
Lake Levels - Total storage for the Clutha System increased by 14.7% to 371 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 83.6%, 66.4% and 45.7% nominally full respectively.

Inflows - Total Inflows into the Clutha System 77.5% higher at 110 GWh.

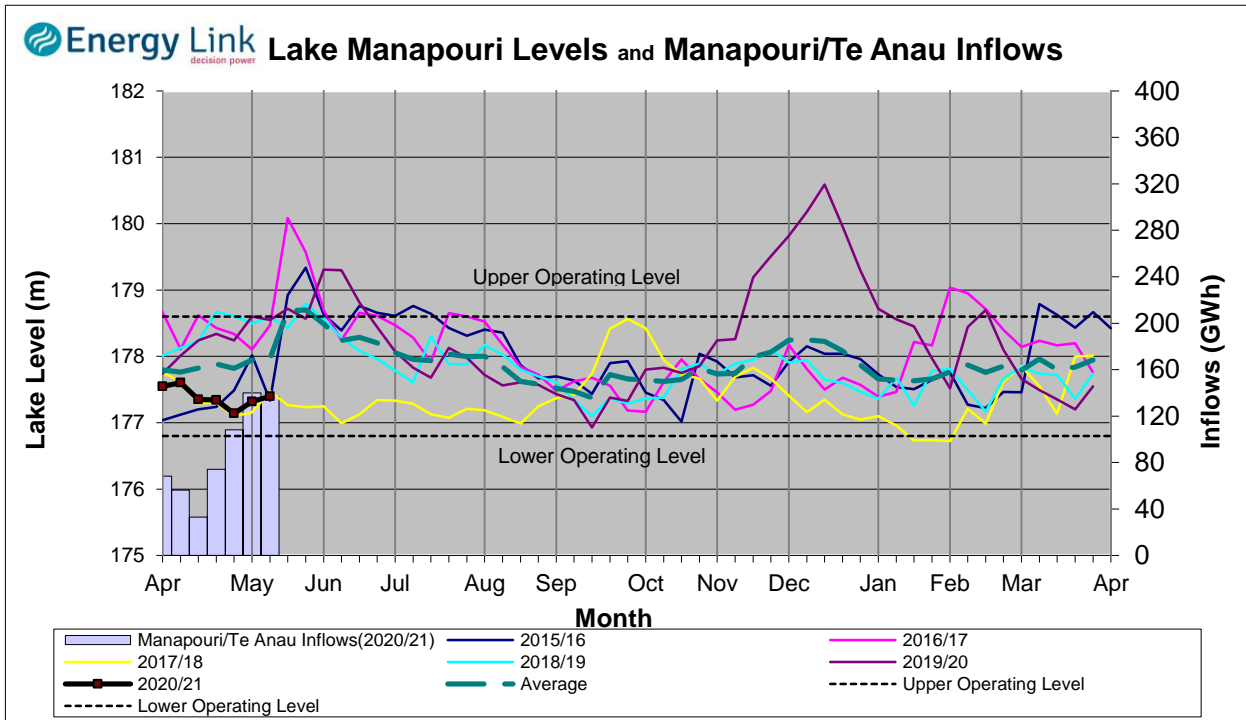
Generation - Average generation was 19.7% higher at 418 MW.

Hydro Spill - There was no estimated spill

River Flows - Total outflows from the lakes and Shotover River increased to 450.8 cumecs. This comprised of 38 cumecs from Lake Hawea, 222 cumecs from Lake Wanaka, 143 cumecs from Lake Wakatipu and 47 cumecs from the Shotover River.



Manapouri System



Lake Levels - Total storage for the Manapouri System increased by 13.3% to 308 GWh with Lake Manapouri ending the week 55.9% nominally full and Lake Te Anau ending the week 78.8% nominally full.

Inflows - Total inflows into the Manapouri System decreased 2.2% to 137 GWh.

Generation - Average generation was 19.4% higher at 599 MW.

Hydro Spill - Estimated spill at the Mararoa Weir was 39.5 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 'Main operating range'.

