

Thursday, 01 December 2022

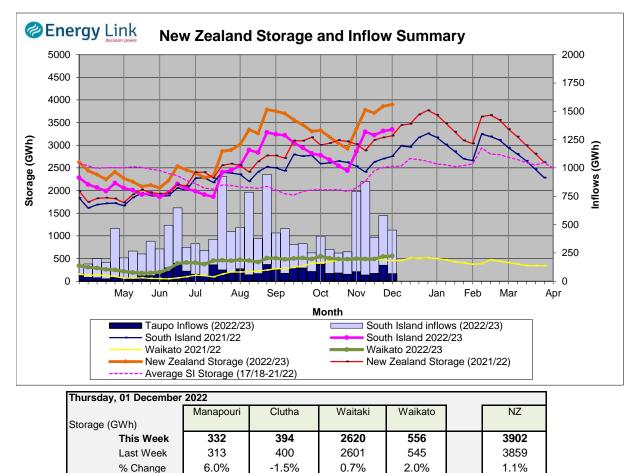
Issue: 1337

A weekly summary relating to New Zealand hydro storage and inflows. **Compiled by Energy Link Ltd.**

Storage Summary	South Island	South Island	South Island	North Island		Total Storage
	Controlled	Uncontrolled	Total	Taupo		-
Current Storage (GWh)	2878	468	3345	556		3902
Storage Change (GWh)	16	16	32	11		43
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatipu						aka, Wakatipu
Transpower Security of	Supply		South Island	North Island		New Zealand
	Current Storage (GWh)		3209	556		3766
Note: These figures are provided to align with Transpower's Security of Supply information. However due				lowever due		
to variances in generation efficiencies and timing, storage may not exactly match Transpower's figures.						

New Zealand Summary

Total storage increased 42.7 GWh over the last week. South Island controlled storage increased 0.5% to 2878 GWh; South Island uncontrolled storage increased 3.6% to 468 GWh; with Taupo storage increasing 2% to 556 GWh.



Inflow (GWh)					
This Week	103	86	195	67	
Last Week	91	84	262	142	
% Change	12.6%	2.4%	-25.4%	-52.6%	

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451 579 -22.0%

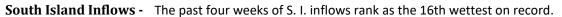
Lake Levels and Outflows

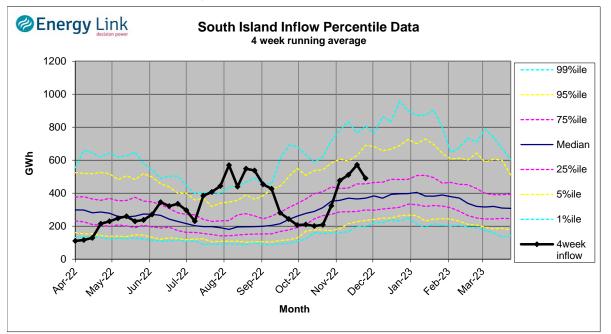
Catchment	Lake	Level	Storage	Outflow	
		(m. asl)	(GWh)	(cumecs)	
Manapouri	Manapouri	177.85	118	37	
	Te Anau	202.29	214		
Clutha	Wakatipu	310.09	63	228	
	Wanaka	277.55	73	267	
	Hawea	345.00	258	97	
Waitaki	Tekapo	709.94	795		
	Pukaki	532.34	1826		
Waikato	Taupo	357.21	556		

Outflow Change
-1
-2
-8
-4

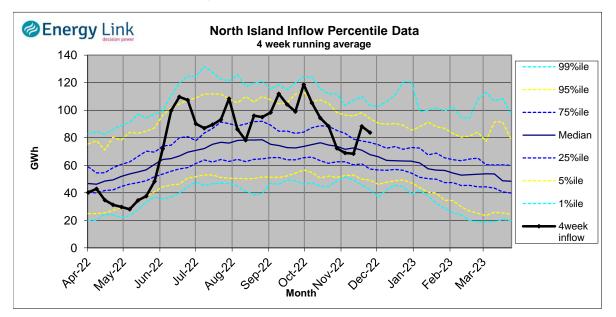
Inflow Summary

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.

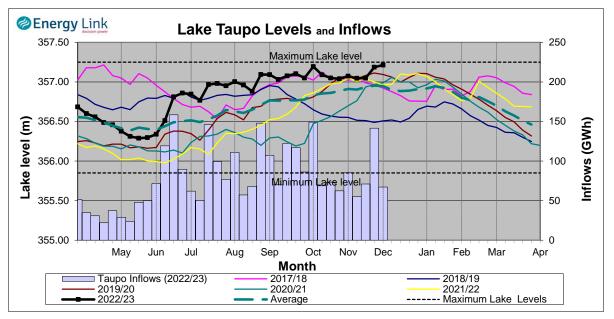




North Island Inflows - The past four weeks of N. I. inflows rank as the 11th wettest on record.



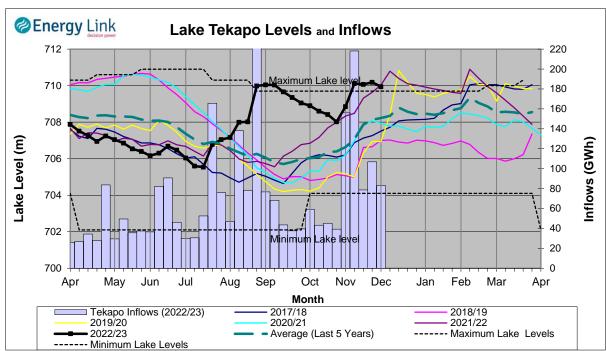
Waikato System



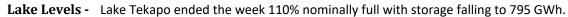
Lake Levels - Lake Taupo storage increased to 97.4% of nominal full at 556 GWh.

Inflows - Inflows decreased 52.6% to 67 GWh.

Generation - Average generation decreased 7.4% to 479.1 MW.

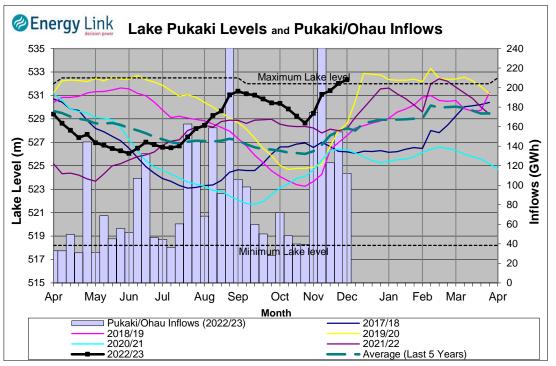


Tekapo



- Inflows Inflows into tekapo decreased 22.4% to 83 GWh.
- **Generation** Average Tekapo generation decreased 7.9% to 157.1 MW.
- Hydro Spill Lake Tekapo spill was 52.7 cumecs.

Waitaki System

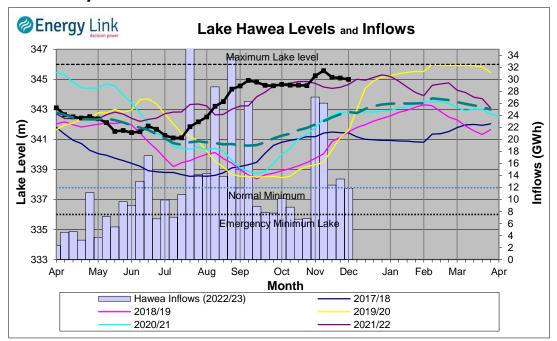


Lake Levels - Lake Pukaki ended the week 103% nominally full with storage increasing to 182

Inflows - Inflows into the Waitaki System decreased 27.5% to 112 GWh.

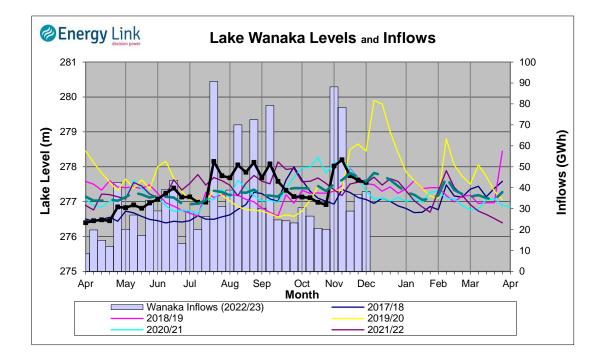
Generation - Average Waitaki generation decreased 0.8% to 921.4 MW.

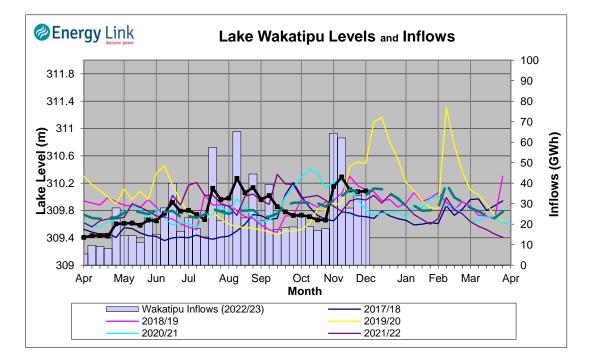
- Hydro Spill Lake Pukaki did not spill.
- **River Flows** Flows from the Ahuriri River increased to 39.8 cumecs while Waitaki River flows were lower than last week averaging 435.8 cumecs.



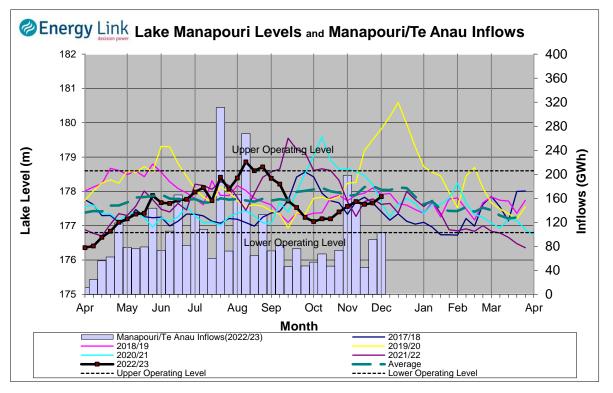
Clutha System

- Lake Levels Total storage for the Clutha System decreased 1.5% to 394 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 87.2%, 63.8% and 59.6% nominally full respectively.
 - Inflows Total Inflows into the Clutha System 2.4% higher at 86 GWh.
- Generation Average generation was 11.7% lower at 508 MW.
- Hydro Spill Estimate Spill is 93.8 cumecs.
- River Flows Total outflows from the lakes and Shotover River fell to 651.6 cumecs. This comprised of 97 cumecs from Lake Hawea, 267 cumecs from Lake Wanaka, 228 cumecs from Lake Wakatipu and 60 cumecs from the Shotover River.





Manapouri System



- Lake Levels Total storage for the Manapouri System increased by 6% to 332 GWh with Lake Manapouri ending the week 72.4% nominally full and Lake Te Anau ending the week 77.7% nominally full.
 - Inflows Total inflows into the Manapouri System increased 12.6% to 103 GWh.
- Generation Average generation was 3.9% lower at 499 MW.
- Hydro Spill Estimated spill at the Mararoa Weir was 37.1 cumecs.
- **Operating Range** Lakes Manapouri and Te Anau are operating in the middle of their respective 'Main operating range'.

