

Thursday, 16 March 2023

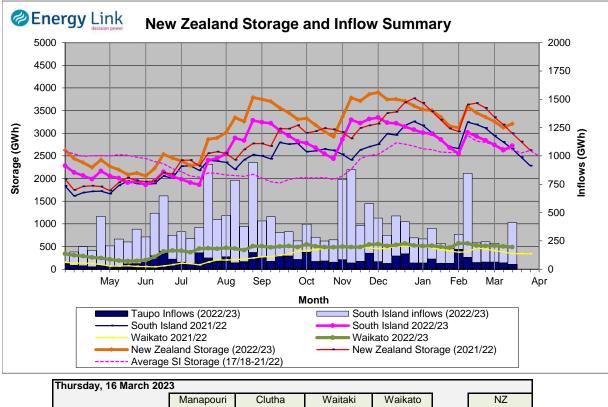
Issue: 1352

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

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.						
Current Storage (GWh)			2641	487		3128
Transpower Security of	Supply		South Island	North Island		New Zealand
Note: SI Controlled; Tekapo, Pukaki and Hawea: SI Uncontrolled; Manapouri, Te Anau, Wanaka, Wakatip						
Storage Change (GWh)	34	64	98	-14		84
Current Storage (GWh)	2436	288	2723	487		3210
	Controlled	Uncontrolled	Total	Taupo		
Storage Summary	South Island	South Island	South Island	North Island		Total Storage

New Zealand Summary

Total storage increased 83.6 GWh over the last week. South Island controlled storage increased 1.4% to 2436 GWh; South Island uncontrolled storage increased 28.8% to 288 GWh; with Taupo storage decreasing 2.8% to 487 GWh.



	Manapouri	Clutha	Waitaki	Waikato	1	NZ
Storage (GWh)						
This Week	205	266	2252	487		3210
Last Week	160	262	2203	501		3127
% Change	27.9%	1.7%	2.2%	-2.8%		2.7%
Inflow (GWh)						
This Week	80	75	214	43		412
Last Week	19	36	97	57		209
% Change	312.6%	109.6%	120.4%	-24.1%		96.9%

Subscribe at www.energylink.co.nz/publications

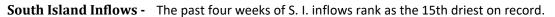
Lake Levels and Outflows

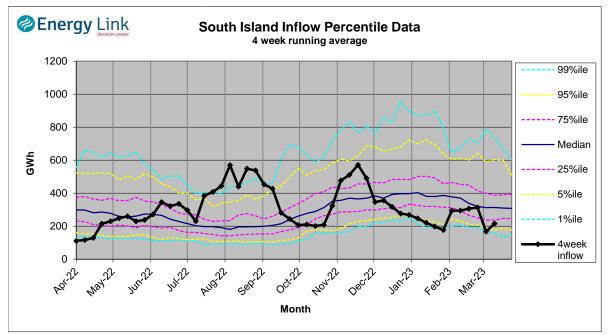
Catchment	Lake	Level	Storage	Outflow	
		(m. asl)	(GWh)	(cumecs)	
Manapouri	Manapouri	177.31	85	17	
	Te Anau	201.66	120		
Clutha	Wakatipu	309.68	32	107	
	Wanaka	277.09	50	170	
	Hawea	343.03	184	173	
Waitaki	Tekapo	708.98	690		
	Pukaki	530.42	1562		
Waikato	Taupo	357.04	487		

Outflow Change
0
14
28
29

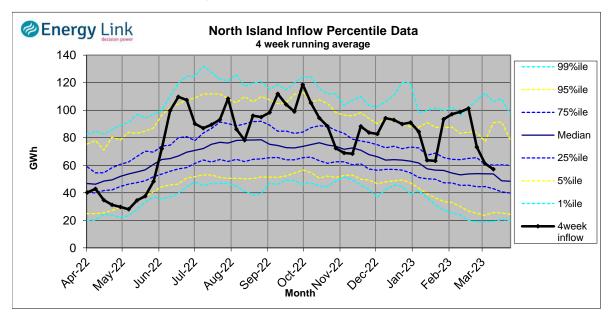
Inflow Summary

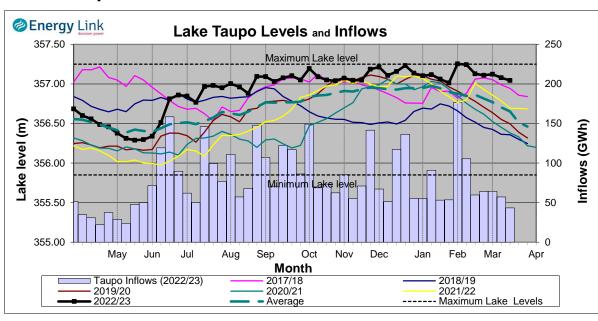
The two charts below represent where current inflows are in relation to historic inflow patterns. The percentile values have been calculated using all inflows since 1931.





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





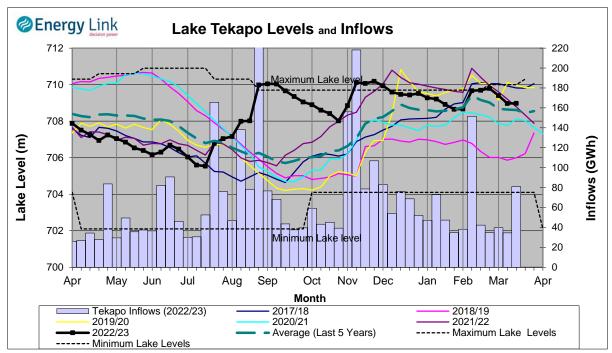
Waikato System

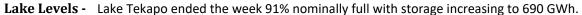
Lake Levels - Lake Taupo storage fell to 85.3% of nominal full at 487 GWh.

Inflows - Inflows decreased 24.1% to 43 GWh.

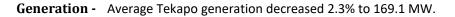
Generation - Average generation decreased 10.7% to 446.2 MW.

Tekapo



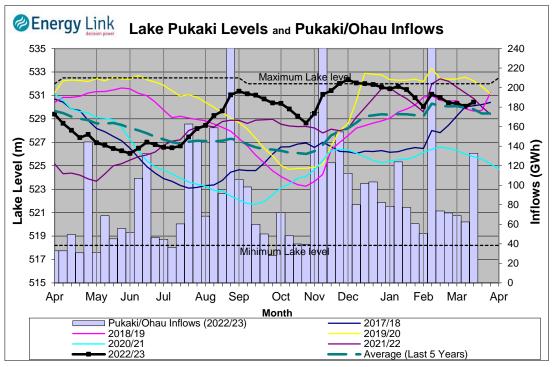


Inflows - Inflows into tekapo increased 134.4% to 81 GWh.



Hydro Spill - Lake Tekapo did not spill.

Waitaki System

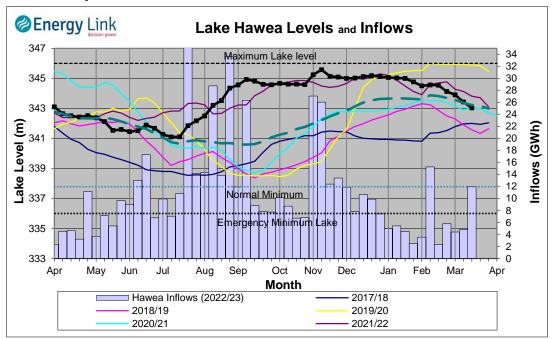


Lake Levels - Lake Pukaki ended the week 88% nominally full with storage increasing to 1562

Inflows - Inflows into the Waitaki System increased 112.7% to 133 GWh.

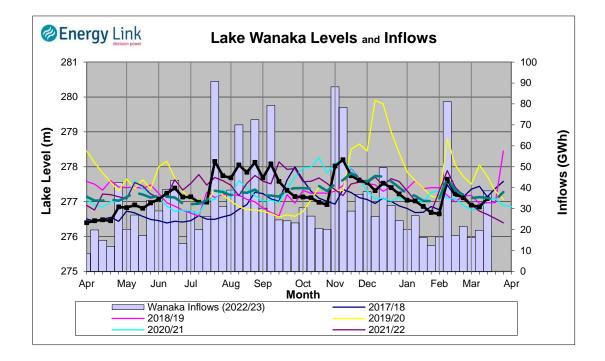
Generation - Average Waitaki generation decreased 3.8% to 903.5 MW.

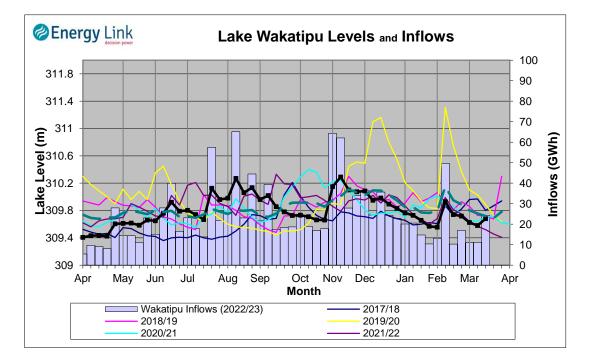
- Hydro Spill Lake Pukaki did not spill.
- **River Flows** Flows from the Ahuriri River increased to 26.6 cumecs while Waitaki River flows were lower than last week averaging 376.8 cumecs.



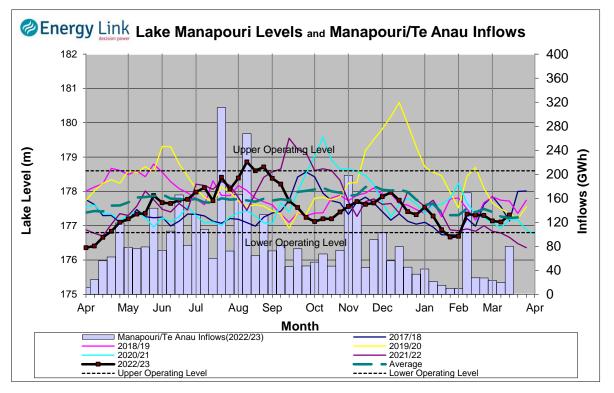
Clutha System

- Lake Levels Total storage for the Clutha System increased by 1.7% to 266 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 62.1%, 43.8% and 30.7% nominally full respectively.
 - Inflows Total Inflows into the Clutha System 109.6% higher at 75 GWh.
- Generation Average generation was 10.3% higher at 419 MW.
- Hydro Spill Estimate Spill is 12.8 cumecs.
- **River Flows** Total outflows from the lakes and Shotover River increased to 482.1 cumecs. This comprised of 173 cumecs from Lake Hawea, 170 cumecs from Lake Wanaka, 107 cumecs from Lake Wakatipu and 31 cumecs from the Shotover River.





Manapouri System



- Lake Levels Total storage for the Manapouri System increased by 27.9% to 205 GWh with Lake Manapouri ending the week 52.6% nominally full and Lake Te Anau ending the week 43.5% nominally full.
 - Inflows Total inflows into the Manapouri System increased 312.6% to 80 GWh.
- Generation Average generation was 6.2% higher at 209 MW.
- Hydro Spill Estimated spill at the Mararoa Weir was 16.8 cumecs.
- **Operating Range -** Lakes Manapouri and Te Anau are operating in the lower end of their respective 'Main operating range'.

