

Thursday, 30 March 2023

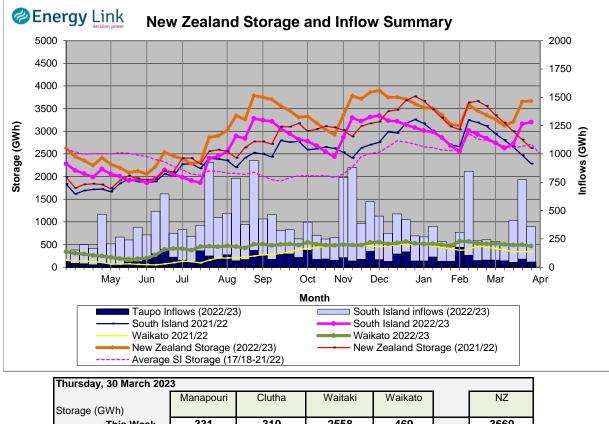
Issue: 1354

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)	2758	441	3199	469		3669
Storage Change (GWh)	54	-17	37	-26		11
Note: SI Controlled; Teka	po, Pukaki and	Hawea: SI Und	controlled; Mana	apouri, Te Ana	au, Wan	aka, Wakatipu
Transpower Security of	Supply		South Island	North Island		New Zealand
	Current Stora	ge (GWh)	3089	469		3559
Note: These figures are p	rovided to aligr	n with Transpow	er's Security of	Supply inform	nation. H	lowever due

New Zealand Summary

Total storage increased 11.3 GWh over the last week. South Island controlled storage increased 2% to 2758 GWh; South Island uncontrolled storage decreased 3.7% to 441 GWh; with Taupo storage decreasing 5.2% to 469 GWh.



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	Manapouri	Clutha	Waitaki	Waikato		NZ
Storage (GWh)						
This Week	331	310	2558	469		3669
Last Week	325	327	2510	495		3658
% Change	1.8%	-5.3%	1.9%	-5.2%		0.3%
Inflow (GWh)						
This Week	76	52	185	46		359
Last Week	172	130	397	72		772
% Change	-56.0%	-60.5%	-53.5%	-35.9%		-53.6%

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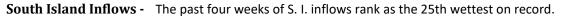
Lake Levels and Outflows

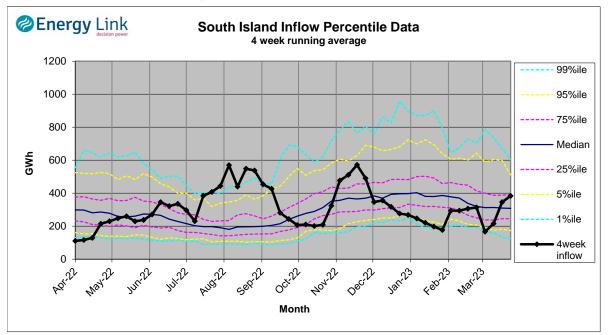
Catchment Lake		Level	Storage	Outflow	
		(m. asl)	(GWh)	(cumecs)	
Manapouri	Manapouri	177.99	126	40	
	Te Anau	202.23	205		
Clutha	Wakatipu	309.83	43	173	
	Wanaka	277.42	67	259	
	Hawea	343.47	200	11	
Waitaki	Tekapo	709.76	774		
	Pukaki	532.04	1784		
Waikato	Taupo	357.00	469		

Outflow Change
13
31
26
-59

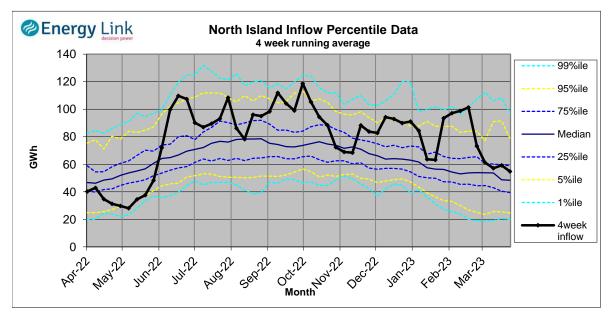
Inflow Summary

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.



Energy Link Lake Taupo Levels and Inflows 357.50 250 Maximum Lake level 357.00 200 Lake level (m) 356.50 150 Inflows (GWh) 356.00 100 355.50 50 355.00 0 May Sep Jun Jul Oct Nov Dec Jan Mai Apr Aug Feb Month Taupo Inflows (2022/23) 2019/20 2018/19 2017/18 2021/22 2020/21 2022/23 Maximum Lake Levels Average

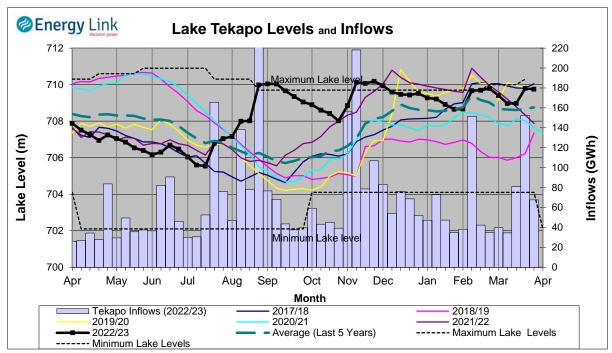
Waikato System

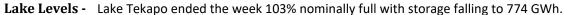
Lake Levels - Lake Taupo storage fell to 82.2% of nominal full at 469 GWh.

Inflows - Inflows decreased 35.9% to 46 GWh.

Generation - Average generation increased 6.9% to 472.4 MW.

Tekapo



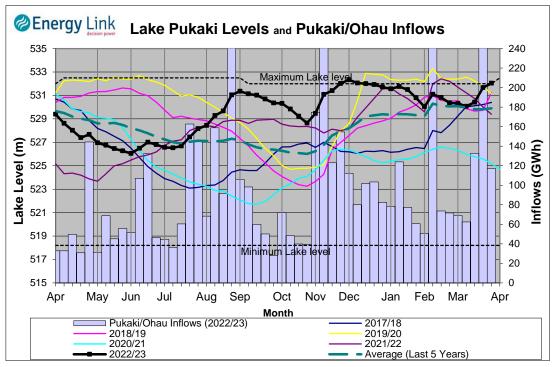


Inflows - Inflows into tekapo decreased 55.5% to 68 GWh.



Hydro Spill - Lake Tekapo did not spill.

Waitaki System



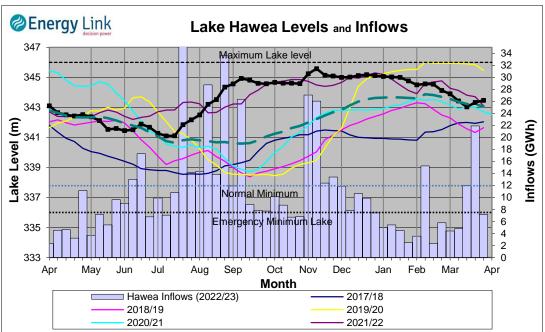
Lake Levels - Lake Pukaki ended the week 100% nominally full with storage increasing to 178

Inflows - Inflows into the Waitaki System decreased 52.2% to 117 GWh.

Generation - Average Waitaki generation decreased 4.7% to 816.9 MW.

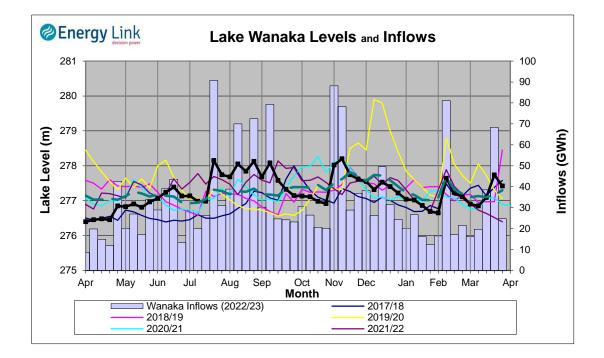
Hydro Spill - Lake Pukaki did not spill.

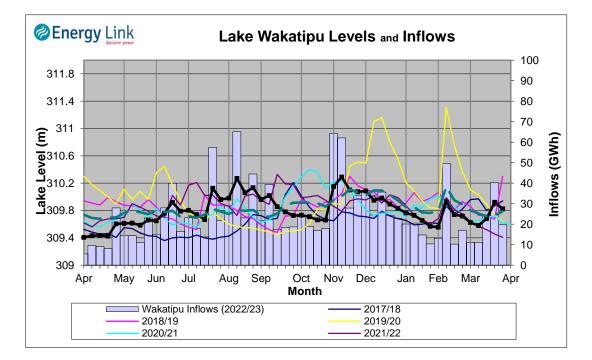
River Flows - Flows from the Ahuriri River fell to 38.5 cumecs while Waitaki River flows were lower than last week averaging 374.2 cumecs.



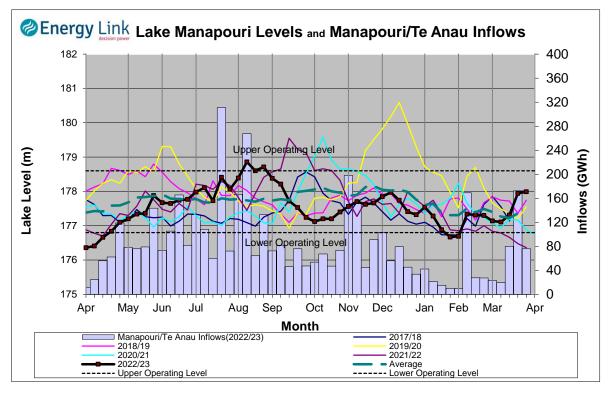
Clutha System

- Lake Levels Total storage for the Clutha System decreased 5.3% to 310 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 67.7%, 58.2% and 41.1% nominally full respectively.
 - Inflows Total Inflows into the Clutha System 60.5% lower at 52 GWh.
- Generation Average generation was 2.7% higher at 446 MW.
- Hydro Spill The was no estimated spill
- River Flows Total outflows from the lakes and Shotover River fell to 478.9 cumecs. This comprised of 11 cumecs from Lake Hawea, 259 cumecs from Lake Wanaka, 173 cumecs from Lake Wakatipu and 37 cumecs from the Shotover River.





Manapouri System



- Lake Levels Total storage for the Manapouri System increased by 1.8% to 331 GWh with Lake Manapouri ending the week 77.5% nominally full and Lake Te Anau ending the week 74.5% nominally full.
 - Inflows Total inflows into the Manapouri System decreased 56% to 76 GWh.
- Generation Average generation was 32.6% higher at 416 MW.
- Hydro Spill Estimated spill at the Mararoa Weir was 39.5 cumecs.
- **Operating Range** Lakes Manapouri and Te Anau are operating in the middle of their respective 'Main operating range'.

