

## Thursday, 13 July 2023

### Issue: 1369

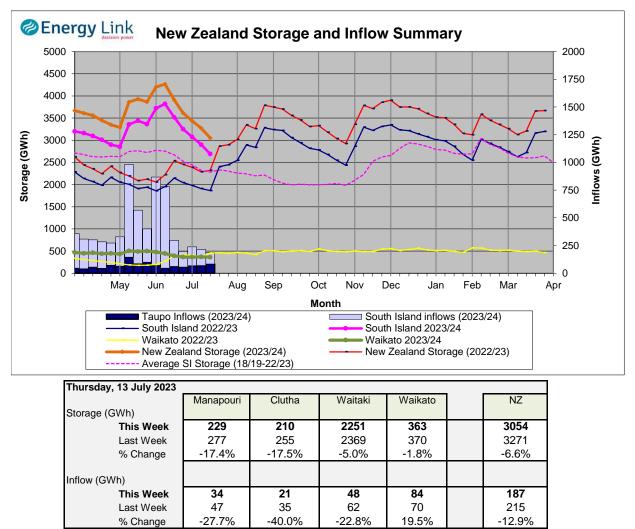
A weekly summary relating to New Zealand hydro storage and inflows. Compiled by Energy Link Ltd.

Storage Summary	South Island	South Island	South Island	North Island		<b>Total Storage</b>		
	Controlled	Uncontrolled	Total	Taupo				
Current Storage (GWh)	2405	286	2690	363		3054		
Storage Change (GWh)	-143	-67	-211	-7		-217		
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)			2634	363		2997		
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 217 GWh over the last week. South Island controlled storage decreased 5.6% to 2405 GWh; South Island uncontrolled storage decreased 19% to 286 GWh; with Taupo storage decreasing 1.8% to 363 GWh.



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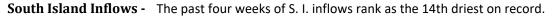
#### Lake Levels and Outflows

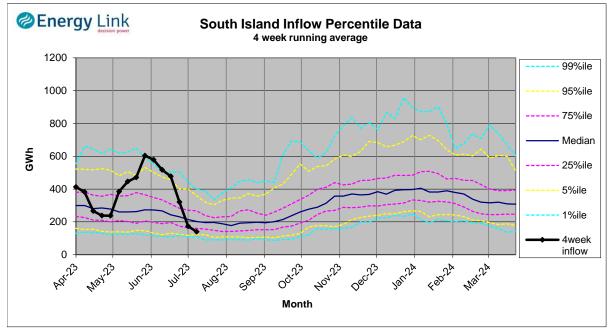
Catchment	Lake	Level	Storage	Outflow	
		(m. asl)	(GWh)	(cumecs)	
Manapouri	Manapouri	177.51	97	14	
	Te Anau	201.74	132		
Clutha	Wakatipu	309.56	23	100	
	Wanaka	276.75	33	131	
	Hawea	342.23	154	191	
Waitaki	Tekapo	708.80	670		
	Pukaki	530.56	1581		
Waikato	Taupo	356.74	363		

Outflow Change
1
-29
-36
19

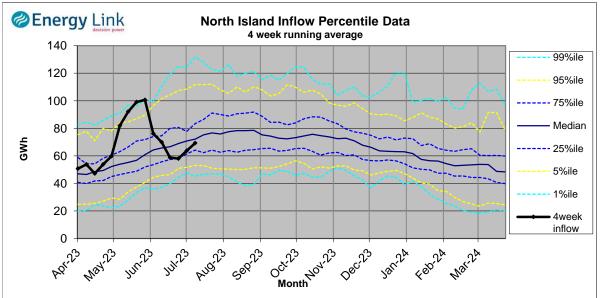
#### **Inflow Summary**

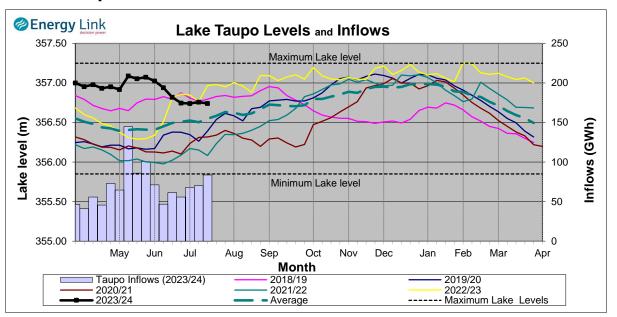
The two charts below represent where current inflows are in relation to historic inflow patterns. The percentile values have been calculated using all inflows since 1931.





North Island Inflows - The past four weeks of N. I. inflows rank as the 40th driest on record.





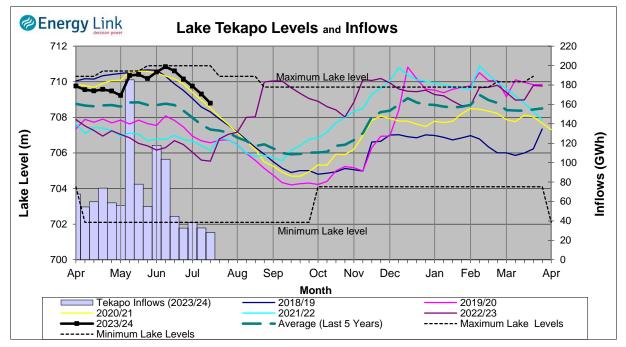
## Waikato System

Lake Levels - Lake Taupo storage fell to 63.7% of nominal full at 363 GWh.

Inflows - Inflows increased 19.5% to 84 GWh.

Generation - Average generation increased 21.8% to 574.5 MW.

### Tekapo



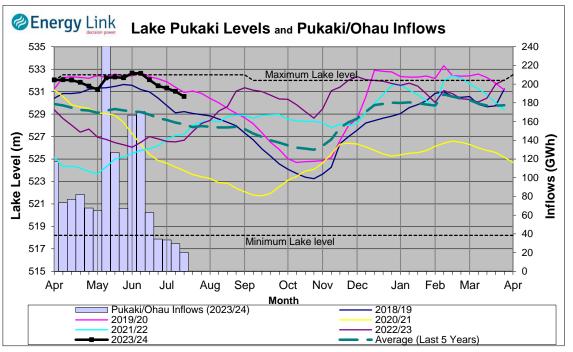
Lake Levels - Lake Tekapo ended the week 79% nominally full with storage falling to 670 GWh.

Inflows - Inflows into tekapo decreased 14.4% to 28 GWh.

**Generation** - Average Tekapo generation increased 1.2% to 176.4 MW.

Hydro Spill - Lake Tekapo did not spill.

# Waitaki System



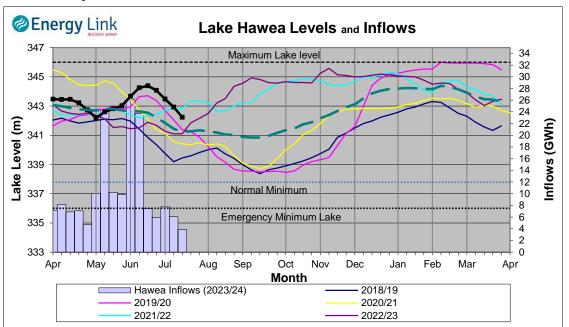
Lake Levels - Lake Pukaki ended the week 86% nominally full with storage falling to 1581 GWh.

Inflows - Inflows into the Waitaki System decreased 32% to 20 GWh.

**Generation** - Average Waitaki generation increased 11.3% to 908.6 MW.

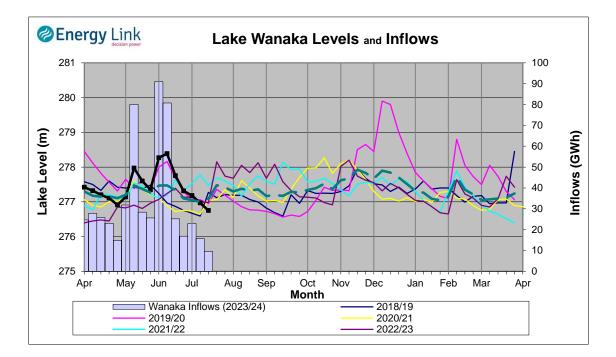
Hydro Spill - Lake Pukaki did not spill.

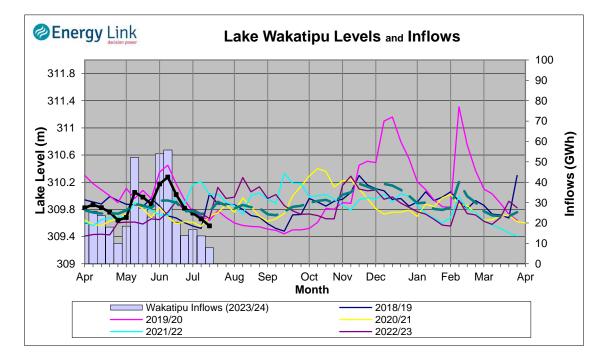
**River Flows** - Flows from the Ahuriri River fell to 16.3 cumecs while Waitaki River flows were higher than last week averaging 380.5 cumecs.



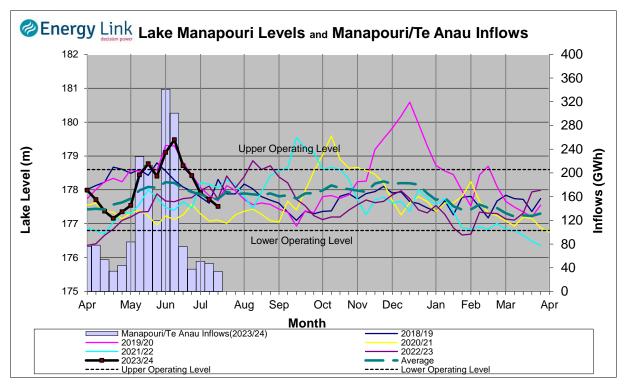
## Clutha System

Lake Levels - Total storage for the Clutha System decreased 17.5% to 210 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 52%, 29% and 22% nominally full respectively.
Inflows - Total Inflows into the Clutha System 40% lower at 21 GWh.
Generation - Average generation was 11.2% lower at 437 MW.
Hydro Spill - The was no estimated spill
River Flows - Total outflows from the lakes and Shotover River fell to 450.6 cumecs. This comprised of 191 cumecs from Lake Hawea, 131 cumecs from Lake Wanaka, 100 cumecs from Lake Wakatipu and 28 cumecs from the Shotover River.





### Manapouri System



- Lake Levels Total storage for the Manapouri System decreased 17.4% to 229 GWh with Lake Manapouri ending the week 59.9% nominally full and Lake Te Anau ending the week 47.8% nominally full.
  - Inflows Total inflows into the Manapouri System decreased 27.7% to 34 GWh.
- Generation Average generation was 16.6% lower at 491 MW.
- Hydro Spill Estimated spill at the Mararoa Weir was 13.9 cumecs.
- **Operating Range** Lake Manapouri is operating in the middle of its 'Main operating range' while Lake Te Anau is operating in the lower end of its 'Main operating range'.

