

## Thursday, 03 August 2023

### Issue: 1372

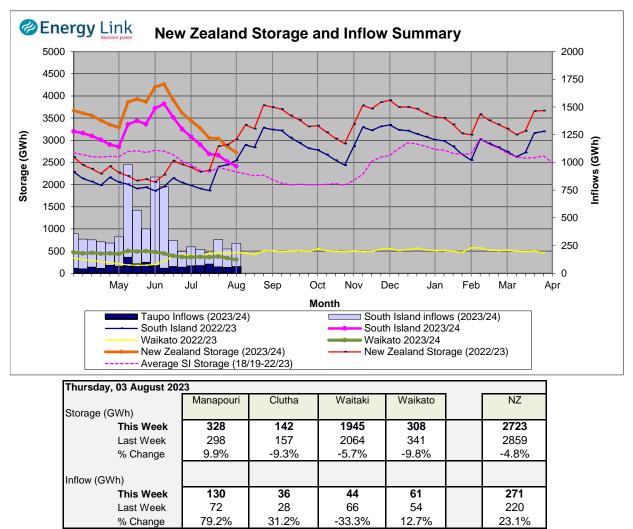
*A weekly summary relating to New Zealand hydro storage and inflows.* **Compiled by Energy Link Ltd.** 

Storage Summary	South Island	South Island	South Island	North Island		Total Storage			
	Controlled	Uncontrolled	Total	Taupo					
Current Storage (GWh)	2039	376	2415	308		2723			
Storage Change (GWh)	-138	34	-103	-33		-137			
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)			2367	308		2674			
Note: These figures are provided to align with Transpower's Security of Supply information. However due									
to contract the second time and time to a structure to second the second time to be the									

to variances in generation efficiencies and timing, storage may not exactly match Transpower's figures.

### **New Zealand Summary**

Total storage decreased 136.8 GWh over the last week. South Island controlled storage decreased 6.3% to 2039 GWh; South Island uncontrolled storage increased 10% to 376 GWh; with Taupo storage decreasing 9.8% to 308 GWh.



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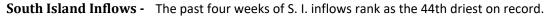
#### Lake Levels and Outflows

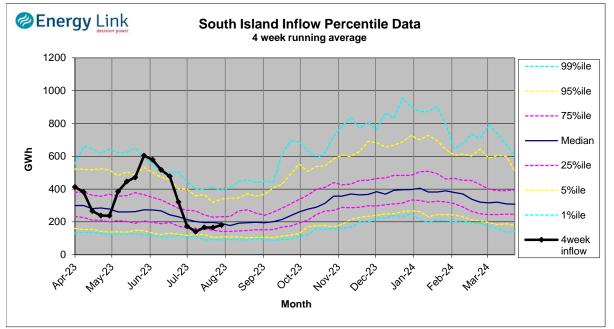
Catchment	Lake	Level	Storage	Outflow	
		(m. asl)	(GWh)	(cumecs)	
Manapouri	Manapouri	178.06	130	24	
-	Te Anau	202.18	197		
Clutha	Wakatipu	309.55	23	76	
	Wanaka	276.60	26	97	
	Hawea	340.61	94	151	
Waitaki	Tekapo	707.33	514		
	Pukaki	529.45	1431		
Waikato	Taupo	356.60	308		

Outflow Change	
11	
-6	
-7	
-7	

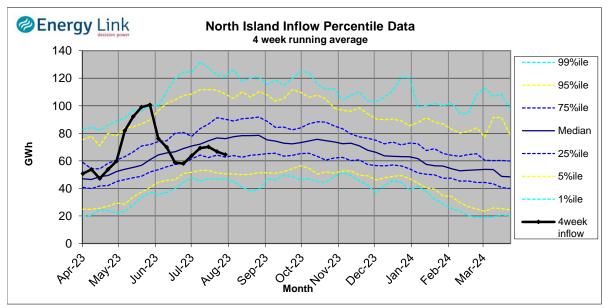
#### **Inflow Summary**

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.

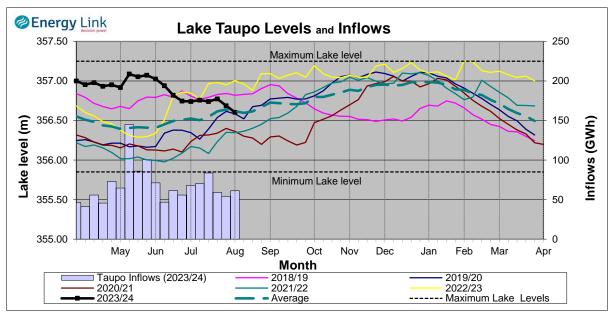




North Island Inflows - The past four weeks of N. I. inflows rank as the 26th driest on record.



# Waikato System

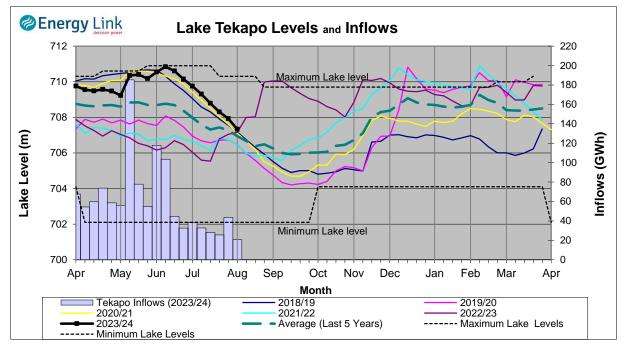


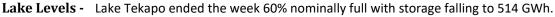
Lake Levels - Lake Taupo storage fell to 53.9% of nominal full at 308 GWh.

Inflows - Inflows increased 12.7% to 61 GWh.

Generation - Average generation increased 6.5% to 562.8 MW.

## Tekapo



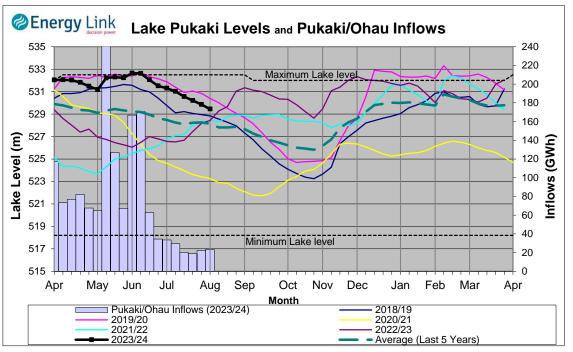


Inflows - Inflows into tekapo decreased 52.8% to 21 GWh.

**Generation** - Average Tekapo generation increased 0.6% to 176.4 MW.

Hydro Spill - Lake Tekapo did not spill.

# Waitaki System



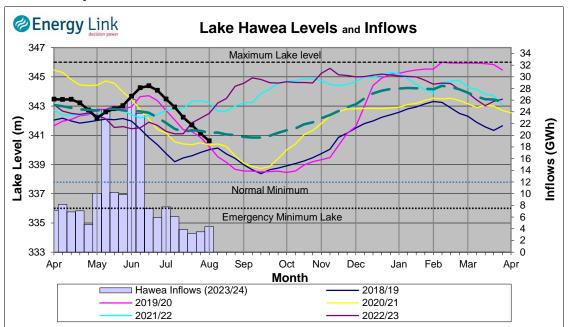
Lake Levels - Lake Pukaki ended the week 77% nominally full with storage falling to 1431 GWh.

**Inflows** - Inflows into the Waitaki System increased 4.9% to 23 GWh.

Generation - Average Waitaki generation increased 7.5% to 884.8 MW.

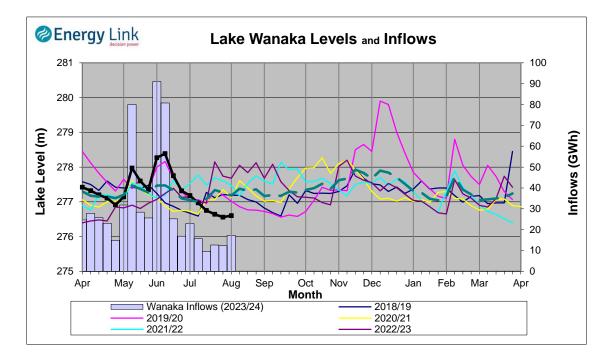
Hydro Spill - Lake Pukaki did not spill.

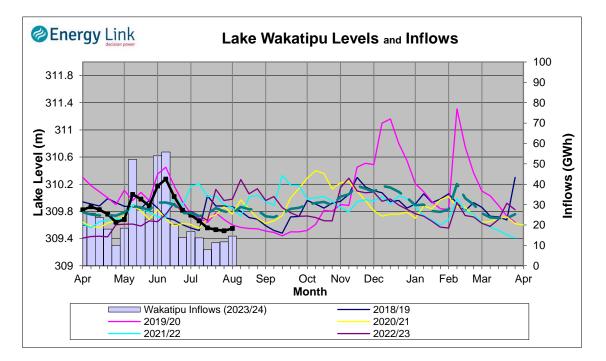
**River Flows** - Flows from the Ahuriri River increased to 14.6 cumecs while Waitaki River flows were higher than last week averaging 367.3 cumecs.



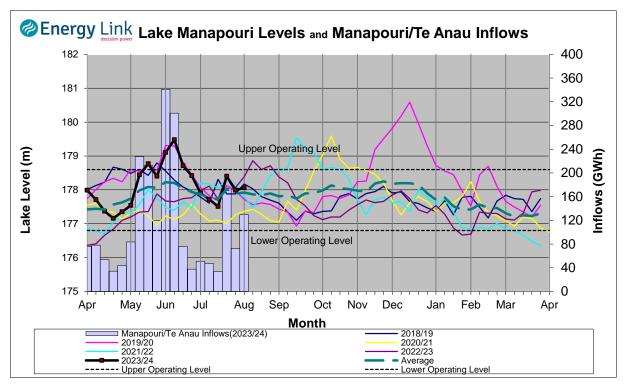
## Clutha System

Lake Levels - Total storage for the Clutha System decreased 9.3% to 142 GWh. Lakes Hawea, Wanaka and Wakatipu ended the week 31.7%, 22.5% and 21.4% nominally full respectively.
Inflows - Total Inflows into the Clutha System 31.2% higher at 36 GWh.
Generation - Average generation was 5.4% lower at 350 MW.
Hydro Spill - The was no estimated spill
River Flows - Total outflows from the lakes and Shotover River fell to 353.1 cumecs. This comprised of 151 cumecs from Lake Hawea, 97 cumecs from Lake Wanaka, 76 cumecs from Lake Wakatipu and 28 cumecs from the Shotover River.





### Manapouri System



- Lake Levels Total storage for the Manapouri System increased by 9.9% to 328 GWh with Lake Manapouri ending the week 80.1% nominally full and Lake Te Anau ending the week 71.7% nominally full.
  - Inflows Total inflows into the Manapouri System increased 79.2% to 130 GWh.
- Generation Average generation was 5.7% lower at 577 MW.
- Hydro Spill Estimated spill at the Mararoa Weir was 23.5 cumecs.
- **Operating Range** Lake Manapouri is operating in the upper end of its 'Main operating range' while Lake Te Anau is operating in the middle of its 'Main operating range'.

