



# TASMANIAN ENERGY SECURITY MONITOR AND ASSESSOR Monthly Dashboard



## July 2023 edition

Report on energy in storage levels and energy security assessment for mainland Tasmania as at 3 July 2023.

### Status

- Energy in storage is above the Prudent Storage Level.
- Energy in storage is equivalent to 6.4 months average seasonal demand.<sup>^</sup>
- Risk response: Normal - commercial operation of Hydro Tasmania generation.
- Hydro Tasmania reports that storages remain above the High Reliability Level over the next 120 days in all of its simulated inflow sequences.

### Water storage situation

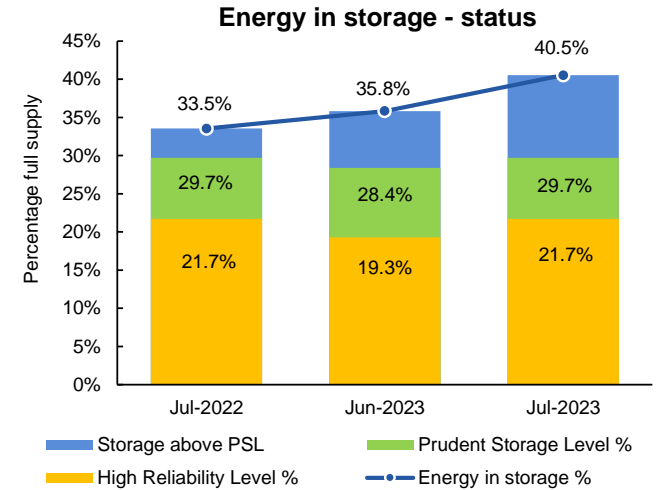
As at 3 July 2023 (GWh)	System	PSL	HRL
Energy in storage (EIS)	5 853	4 288	3 133
Percentage full supply <sup>#</sup>	40.5%	29.7%	21.7%
Total June yield <sup>~</sup> (GWh)	1 671		

### Comparison

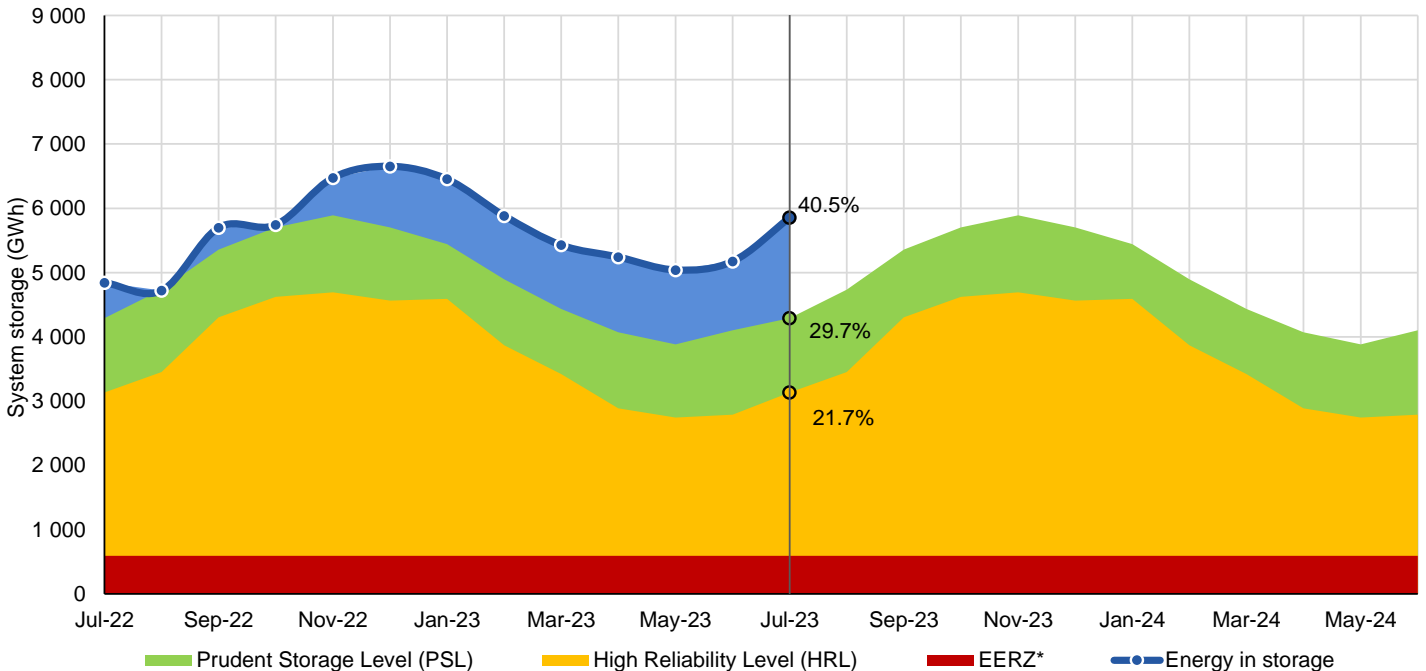
Previous month (as at 5 June 2023) (GWh)	5 174
Change from last month (GWh)	13.1% ↑
Change from July last year (GWh)	20.9% ↑

### Energy security assessment

No additional monitoring activities required.



### Energy in storage (mainland Tasmania) - July 2022 to July 2023



<sup>^</sup> Average seasonal demand for the energy in storage equivalent is approximately 916 GWh per month.

<sup>#</sup> Total system supply is 14 437 GWh (excludes Lake Gairdner, Lake Margaret and Lake Plimsoll).

<sup>~</sup> Inflows for the calendar month minus losses due to evaporation.

\* System storage associated with Great Lake Environmental Extreme Risk Zone (EERZ).

HRL = High Reliability Level (threshold to which reserve water is held for energy security purposes, where the reserve is sufficient to withstand a six month Basslink outage coinciding with a very low inflow sequence, and avoid extreme environmental risk for Great Lake).

PSL = Prudent Storage Level (additional storage to result in a low likelihood of entering the HRL under normal operating conditions).

EIS = Energy in storage (the volume of water available for electricity generation in Hydro Tasmania's dams as a percentage of full supply).

## June 2023 generation (mainland Tasmania)

### Consumption

Tasmanian monthly consumption 1 034.7 GWh

### Renewable generation

Hydro generation 902.5 GWh

Wind generation 203.6 GWh

### Gas generation

Gas generation 5.8 GWh

### Operational

### Basslink interconnector

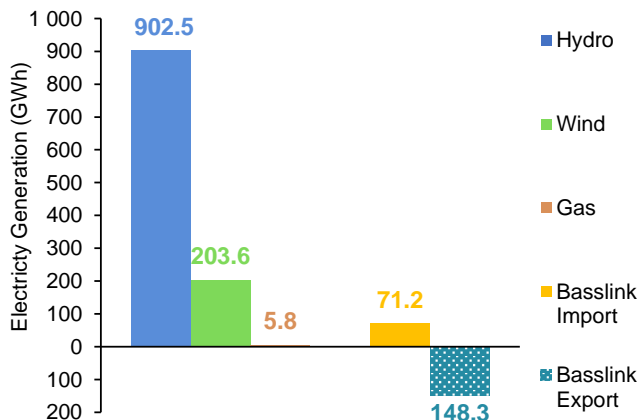
### Operational

Basslink imports 71.2 GWh

Basslink exports 148.3 GWh

Basslink net exports 77.1 GWh

## Energy generation mix and Basslink flows - June 2023



## Energy security outlook

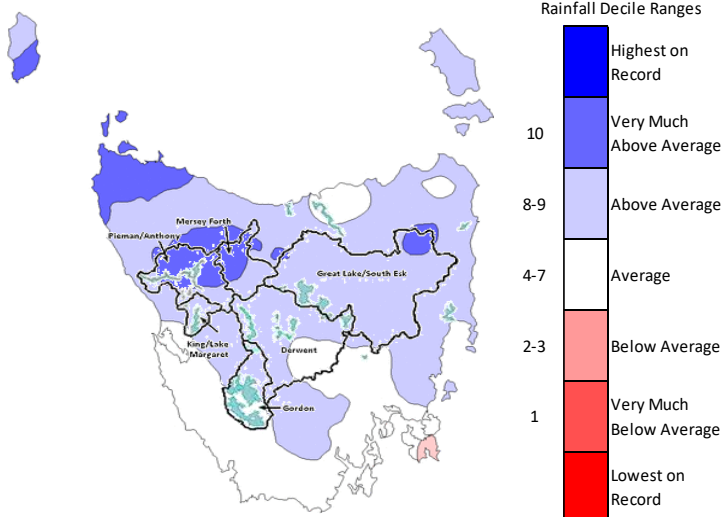
### Rainfall in Tasmania - June 2023

Rainfall during June 2023 was very much above average in Hydro Tasmania's Pieman/Anthony and Mersey Forth catchments and above average in all other catchments. Rainfall across Tasmania was 45 per cent above average during June 2023

### Three month forecast

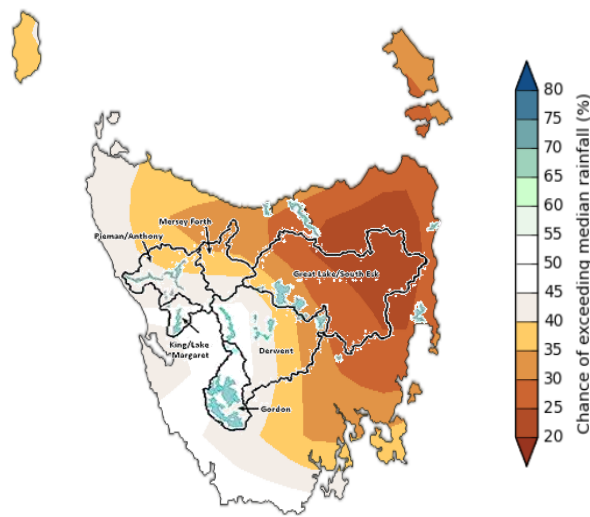
The Bureau of Meteorology's three month climate outlook for July 2023 to September 2023, issued on 29 June 2023, indicates that all of Hydro Tasmania's catchments are likely to receive below median rainfall.

### Monthly rainfall deciles for Tasmania 1 June 2023 - 30 June 2023



Source: Bureau of Meteorology, Monthly Climate Summary for Tasmania.

### Likelihood of exceeding the median rainfall July 2023 to September 2023



Source: Bureau of Meteorology, Monthly Climate Outlook.

*Disclaimer: This report has been prepared in good faith using information sourced from NEM Review™ and the Australian Bureau of Meteorology, with additional data provided by Hydro Tasmania. The Office of the Tasmanian Economic Regulator assumes no liability as to the reliability and accuracy of the information provided.*