



# TASMANIAN ENERGY SECURITY

## MONITOR AND ASSESSOR

### Monthly Dashboard



#### October 2024 edition

Report on energy in storage levels and energy security assessment for mainland Tasmania as at 7 October 2024.

#### Status

- Energy in storage is above the Prudent Storage Level.
- Energy in storage is equivalent to 8 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 7 October 2024 (GWh)	System	PSL	HRL
Energy in storage (EIS)	6 914	5 703	4 620
Percentage full supply <sup>#</sup>	47.9%	39.5%	32.0%
Total September yield <sup>~</sup> (GWh)	1 662		

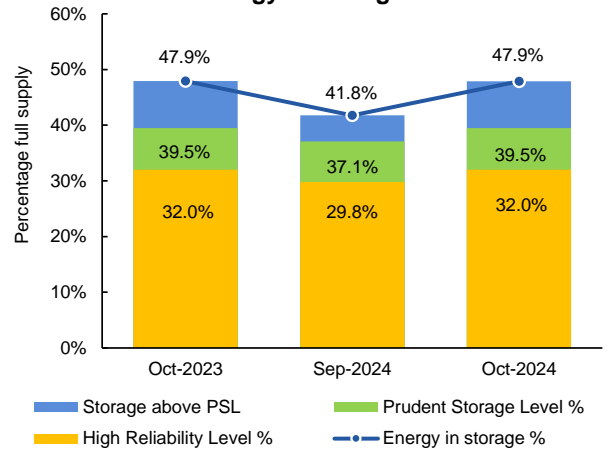
#### Comparison

Previous month (as at 2 September 2024) (GWh)	6 030
Change from last month (GWh)	14.7% ↑
Change from October last year (GWh)	0.1% ↓

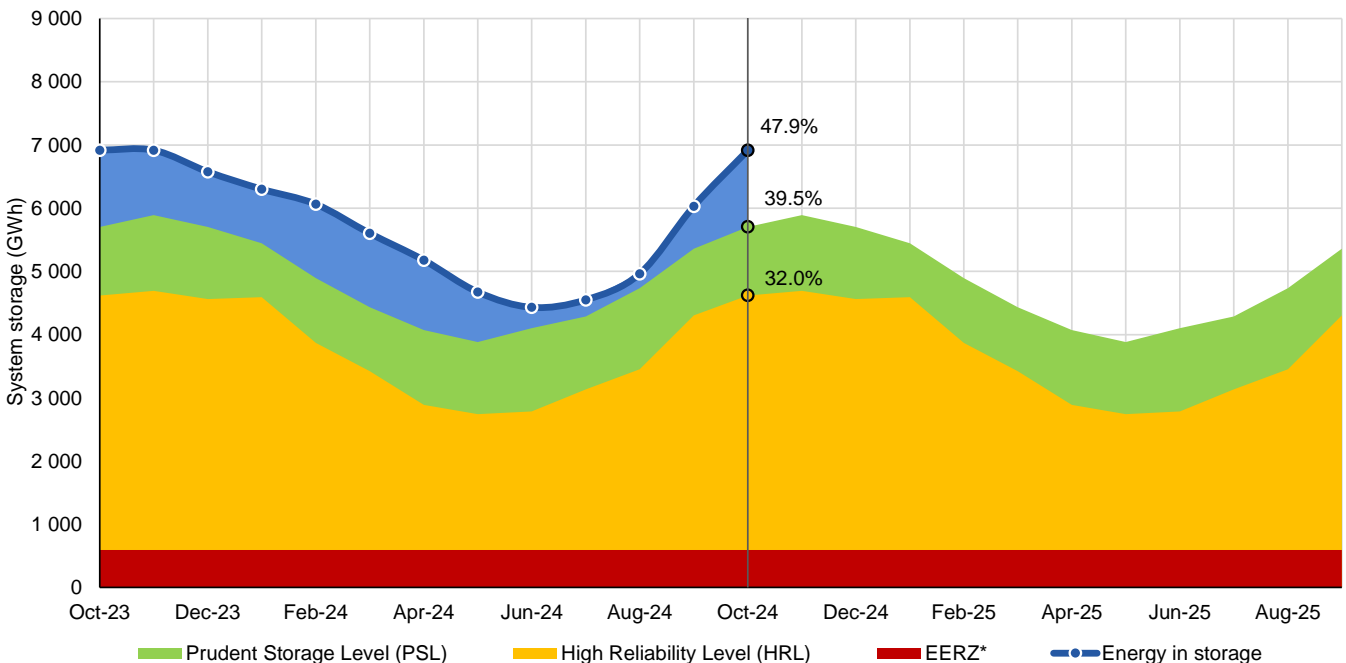
#### Energy security assessment

Increased monitoring activities required.

#### Energy in storage - status



#### Energy in storage (mainland Tasmania) - October 2023 to October 2024



<sup>^</sup> Average seasonal demand for the energy in storage equivalent is approximately 859 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).

## September 2024 generation (mainland Tasmania)

### Consumption

Tasmanian monthly consumption 922.5 GWh

### Renewable generation

Hydro generation 691.7 GWh  
Wind generation 239.1 GWh

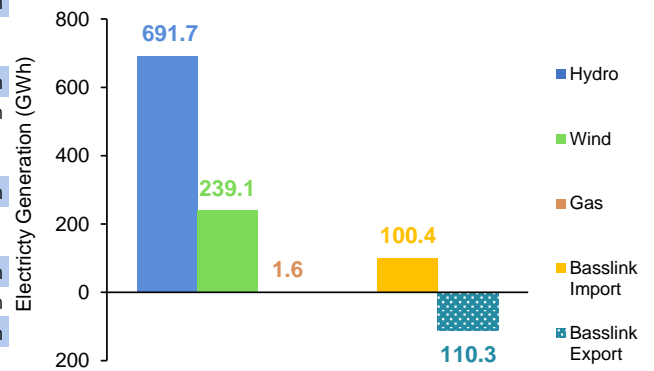
### Gas generation

Gas generation 1.6 GWh

### Basslink interconnector

Basslink imports 100.4 GWh  
Basslink exports 110.3 GWh  
Basslink net exports 9.9 GWh

### Energy generation mix and Basslink flows - September 2024



## Energy security outlook

Hydro Tasmania's reporting shows that, due to increased inflows during August and September 2024, storages remain above the Prudent Storage Level over the next 120 days in all simulated inflow sequences. Although the energy security risk is assessed as very low, increased monitoring will continue to take place to enable Monitor and Assessor to receive more frequent updates.

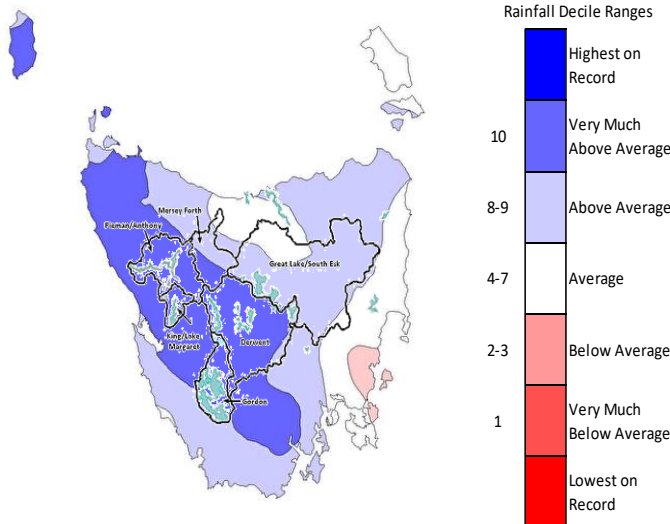
### Rainfall in Tasmania - September 2024

Rainfall during September 2024 was above or very much above average across all of Hydro Tasmania's catchments. Across Tasmania, rainfall was 44.6 per cent above the average for September (the wettest September in 21 years). The mean maximum temperature in September 2024 was 0.32 °C cooler than average.

### Three month forecast

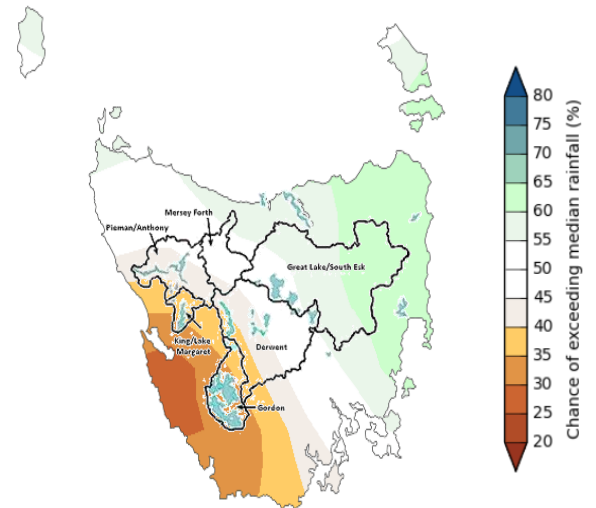
The Bureau of Meteorology's three-month climate outlook for October to December 2024, issued on 3 October 2024, indicates below median rainfall across Hydro Tasmania's Gordon and King/Lake Margaret catchments. The Great Lake/South Esk catchment is likely to receive above median rainfall.

### Monthly rainfall deciles for Tasmania 1 September 2024 - 30 September 2024



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

### Likelihood of exceeding the median rainfall October 2024 to December 2024



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.*