

# TASMANIAN ENERGY SECURITY Monitor and Assessor




## Monthly Dashboard

September 2022 edition

Report on energy in storage levels and energy security assessment for mainland Tasmania as at 5 September 2022.

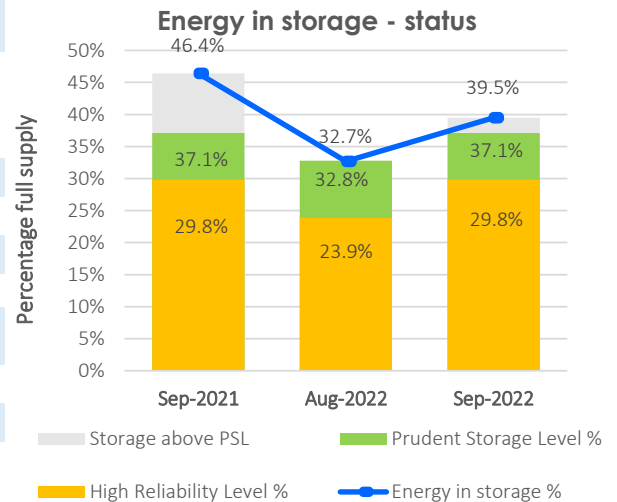
### Status

Energy in storage is above the Prudent Storage Level.  
 Energy in storage is equivalent to 6.7 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.

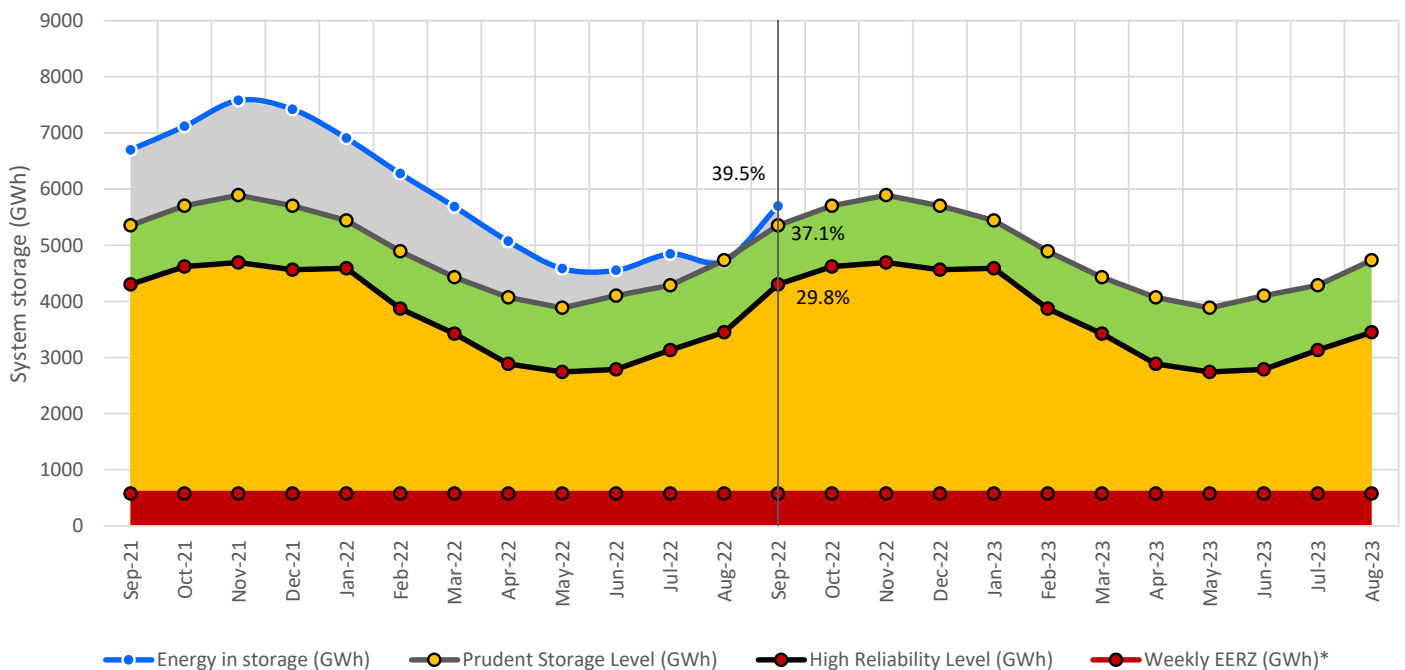
 Energy security assessment:  
 Continued more frequent monitoring is being carried out.

### Energy in storage (EIS)

	System	PSL	HRL
As at 5 September 2022 (GWh)	5 699	5 356	4 302
Percentage full supply #	39.5%	37.1%	29.8%
Total August yield~ (GWh)	1 759		
Previous month (as at 1 August 2022) (GWh)	4 718		
Change from last month (GWh)	20.8%		
Change from September last year (GWh)	-14.9%		



### Energy in storage (mainland Tasmania) - September 2021 to September 2022\*\*



<sup>^</sup> Average seasonal demand for the energy in storage equivalent is approximately 850 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.

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

\*\* The HRL and PSL profiles were revised in August 2021, taking effect from 1 September 2021. This chart shows the revised profiles starting from September 2021. Further information can be found at the Regulator's website: <https://www.economicregulator.tas.gov.au/about-us/energy-security-monitor-and-assessor>

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).

## August statistics

### Mainland Tasmanian generation during August 2022

Tasmanian monthly consumption	1 013.2 GWh
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### Renewable generation

Hydro generation	784.6 GWh
Wind generation	179.3 GWh

### Gas

Gas generation	Operational 13.2 GWh
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### Basslink flows during August 2022

#### Basslink interconnector

Basslink interconnector	Operational
Basslink imports	60.1 GWh
Basslink exports	24.0 GWh
Basslink net imports	36.1 GWh

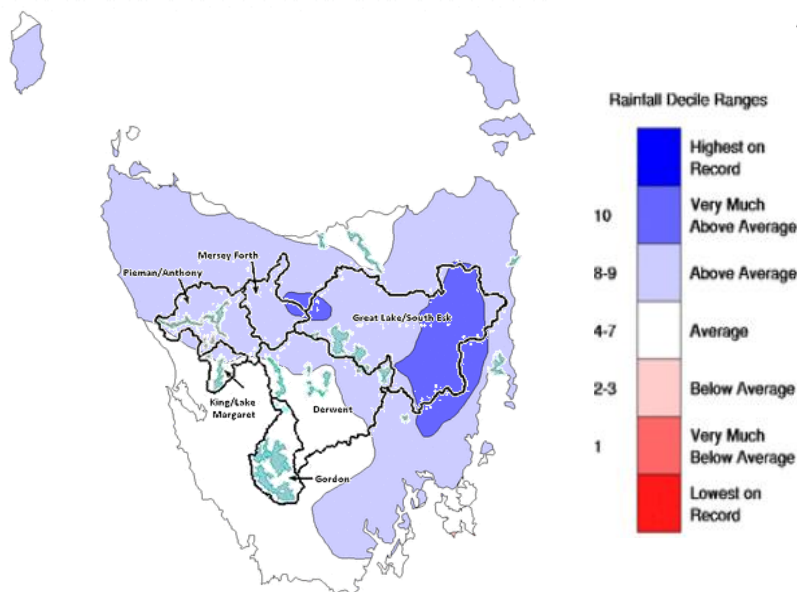
## Energy security outlook

Water storage levels declined in the first half of 2022 due to lower than average inflows and EIS was marginally below the PSL at 1 August 2022. However, strong inflows during August have resulted in overall storage levels rising above the September PSL threshold. The Monitor and Assessor continues to receive more frequent updates than usual to allow increased monitoring to take place.

### Rainfall in Tasmania - August 2022

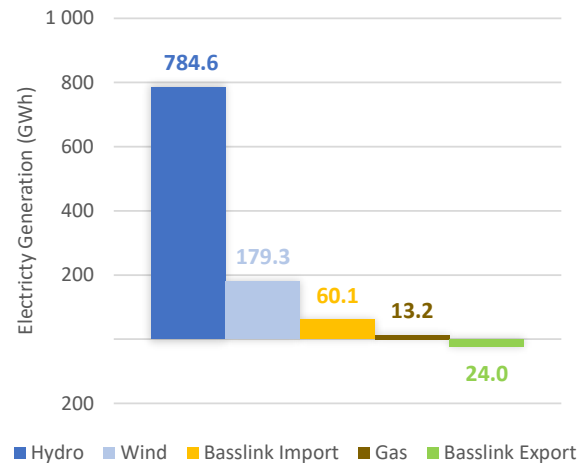
Rainfall over Hydro Tasmania's catchments in the south west was at average levels in August 2022, and above average in the northern catchments. The mean maximum temperature for Tasmania as a whole was 1.20°C above average, the sixth-warmest on record. Overall, rainfall for August was 28% above average for Tasmania.

#### Monthly Rainfall Deciles for Tasmania 1 August 2022 - 31 August 2022



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

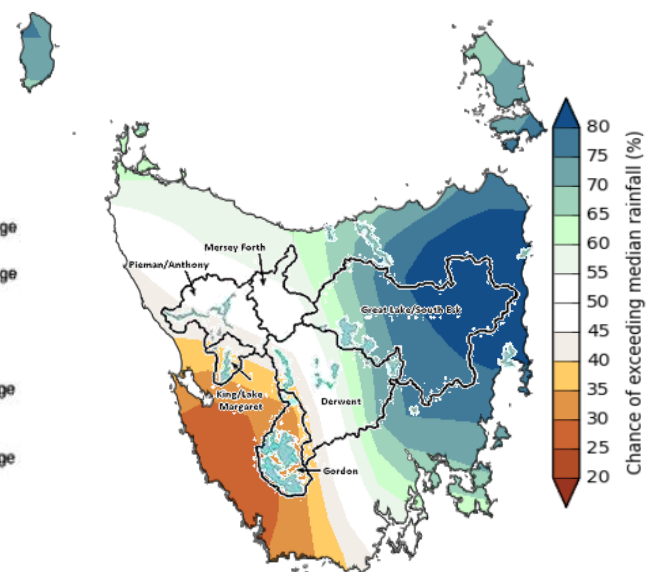
### Mainland Tasmanian generation mix August 2022



### Three month forecast

The Bureau of Meteorology's three month climate outlook for September 2022 to November 2022, issued on 1 September 2022, estimates below median rainfall is likely in Hydro Tasmania's south west catchments. However, there is a moderate to high chance of greater than median rainfall in eastern Tasmania, and roughly equal chances of above or below median rainfall in the north western catchments. Based on this forecast, the major Gordon and King/Lake Margaret storages are likely to receive below average inflows.

#### Likelihood of Exceeding the Median Rainfall September 2022 to November 2022



Source: Bureau of Meteorology, Monthly Climate Outlook (link).

*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.*