

# TASMANIAN ENERGY SECURITY Monitor and Assessor



## Monthly Dashboard

December 2022 edition

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

### Status

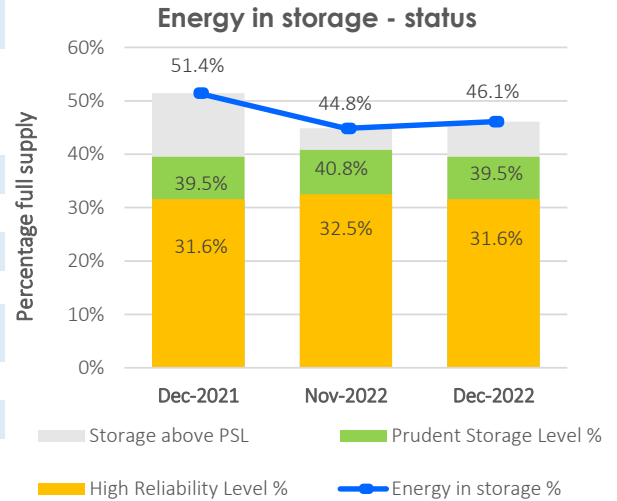
Energy in storage is above the Prudent Storage Level.  
 Energy in storage is equivalent to 7.6 months average seasonal demand.<sup>^</sup>  
 Risk response: Normal - commercial operation of Hydro Tasmania generation.  
 Hydro Tasmania reports that storages remain above the High Reliability Level over the next 120 days in all of its simulated inflow sequences.



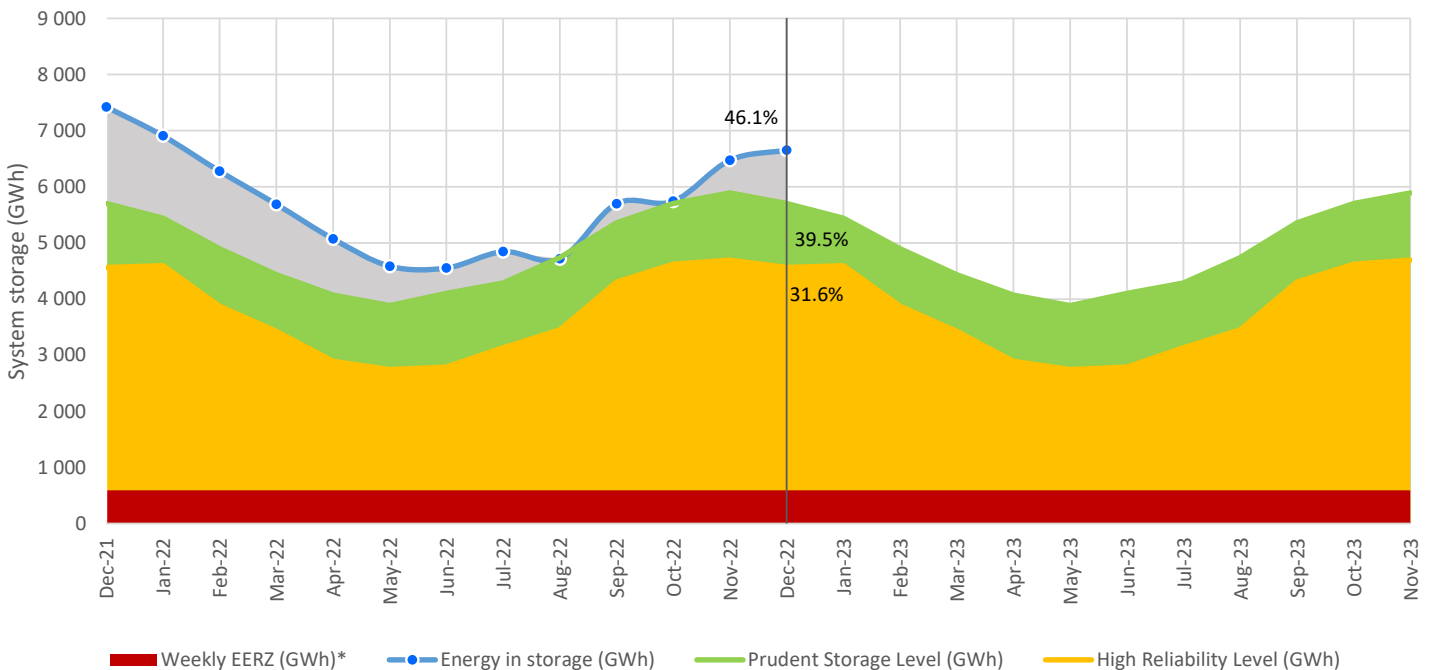
Energy security assessment:  
 No additional monitoring activities required.

### Energy in storage (EIS)

	System	PSL	HRL
As at 5 December 2022 (GWh)	6 653	5 703	4 562
Percentage full supply <sup>#</sup>	46.1%	39.5%	31.6%
Total November yield <sup>~</sup> (GWh)	954		
Previous month (as at 7 November 2022) (GWh)	6 473		
Change from last month (GWh)	2.8%		
Change from December last year (GWh)	-10.4%		



### Energy in storage (mainland Tasmania) - December 2021 to December 2022



<sup>^</sup> Average seasonal demand for the energy in storage equivalent is approximately 877 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).

<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).

## November statistics

### Mainland Tasmanian generation during November 2022

Tasmanian monthly consumption 852.9 GWh

#### Renewable generation

Hydro generation 673.4 GWh

Wind generation 141.2 GWh

#### Gas

Gas generation Operational 3.0 GWh

### Basslink flows during November 2022

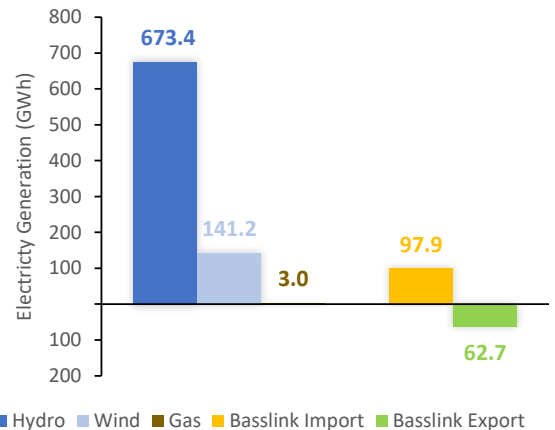
#### Basslink interconnector

Basslink imports 97.9 GWh

Basslink exports 62.7 GWh

Basslink net imports 35.3 GWh

### Mainland Tasmanian generation mix and Basslink flows November 2022

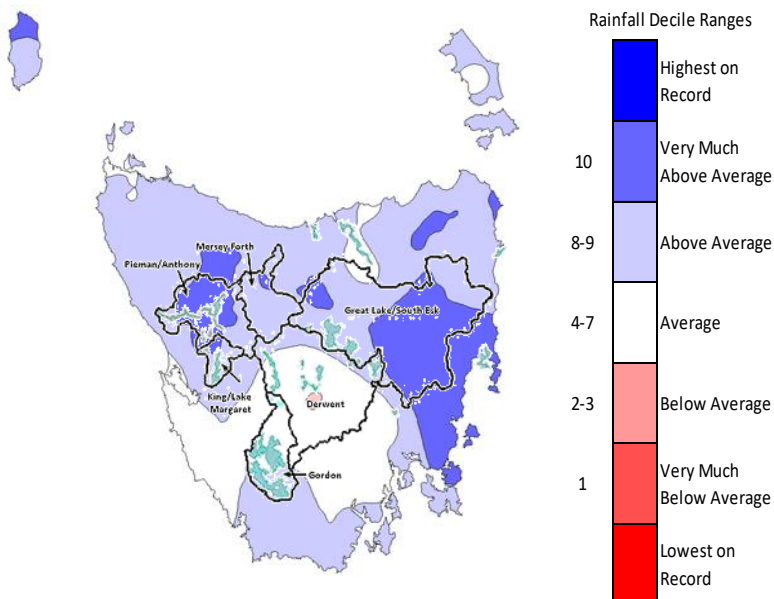


## Energy security outlook

### Rainfall in Tasmania - November 2022

Rainfall in Hydro Tasmania's Gordon and Derwent catchments was average during November 2022. Rainfall in the remaining catchments was above average to very much above average. The mean maximum temperature for Tasmania was 0.49°C below average. Overall, rainfall in November 2022 was 31.1 per cent above average for Tasmania.

#### Monthly Rainfall Deciles for Tasmania 1 November 2022 - 30 November 2022

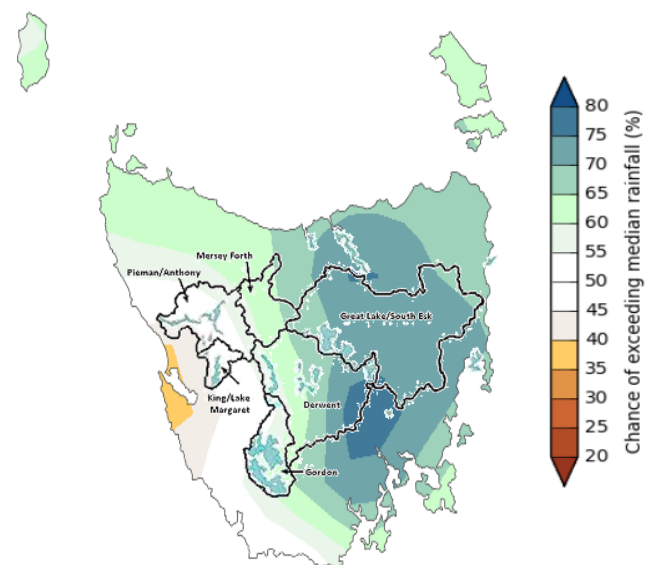


Source: Bureau of Meteorology, Monthly Climate Summary for Tasmania.

### Three month forecast

The Bureau of Meteorology's three month climate outlook for December 2022 to February 2023, issued on 1 December 2022, estimates median rainfall for Tasmania's west and south west, and an above average chance that rainfall will exceed the median for the rest of the State. Based on this forecast, the major Gordon and King/Lake Margaret catchments are likely to receive average inflows and other catchments are likely to receive above average inflows.

#### Likelihood of Exceeding the Median Rainfall December 2022 to February 2022



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.*