



# TASMANIAN ENERGY SECURITY Monitor and Assessor



## Monthly Dashboard

September 2021 edition

Report on energy in storage levels and energy security assessment for mainland Tasmania as at 6 September 2021.

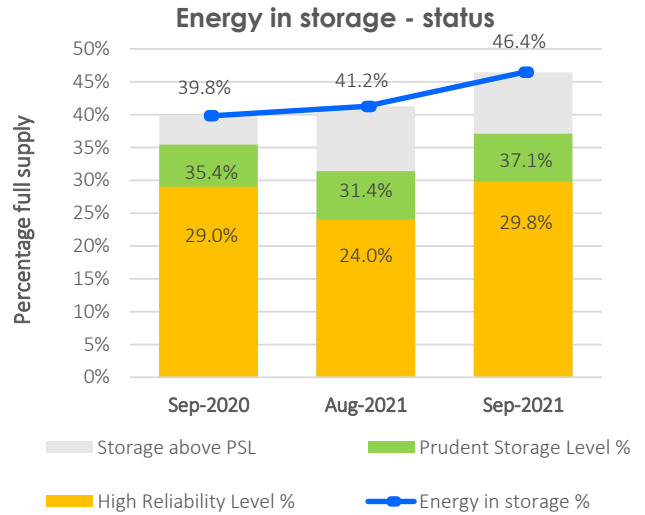
### Status

Energy in storage remains well above the Prudent Storage Level.  
 Energy in storage is equivalent to 7.8 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 its simulated inflow sequences.

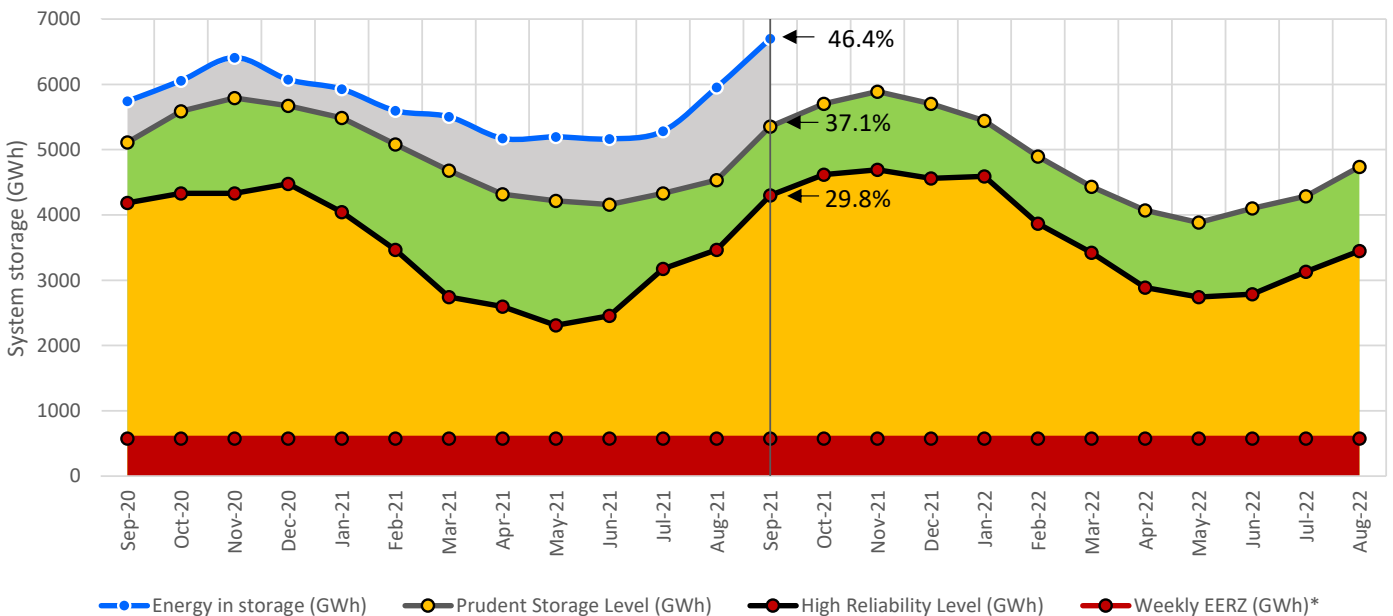
Energy security assessment:  
 no additional monitoring activities required

### Energy in storage (EIS)

	System	PSL	HRL
As at 6 September 2021 (GWh)	6 700	5 356	4 302
Percentage full supply <sup>#</sup>	46.4%	37.1%	29.8%
Total August inflows <sup>~</sup> (GWh)	1 821		
Previous month (as at 2 August 2021) (GWh)	5 954		
Change from last month (GWh)	12.5%		
Compared to September last year (GWh)	16.7%		



### Energy in storage (mainland Tasmania) - September 2020 to September 2021



<sup>^</sup> Average seasonal demand for the energy in storage equivalent is approximately 858 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).

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 2021

Tasmanian monthly consumption	1 042.5 GWh
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### Renewable generation

Hydro generation	1 077.3 GWh
Wind generation	190.2 GWh

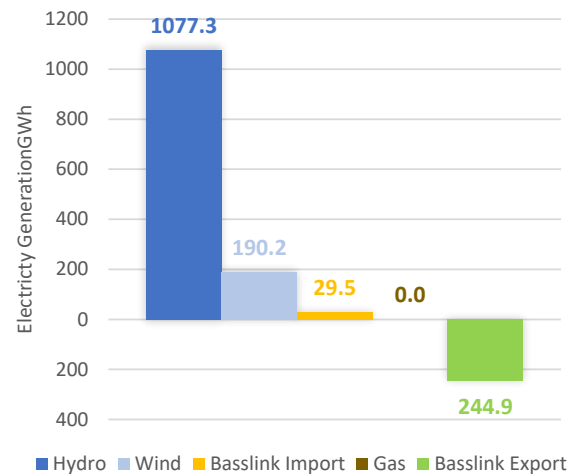
### Gas

Gas generation	0.0 GWh
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### Basslink flows during August 2021

<b>Basslink interconnector</b>	Operational
Basslink imports	29.5 GWh
Basslink exports	244.9 GWh
Basslink net exports	215.4 GWh

### Mainland Tasmanian generation mix



## Energy security outlook

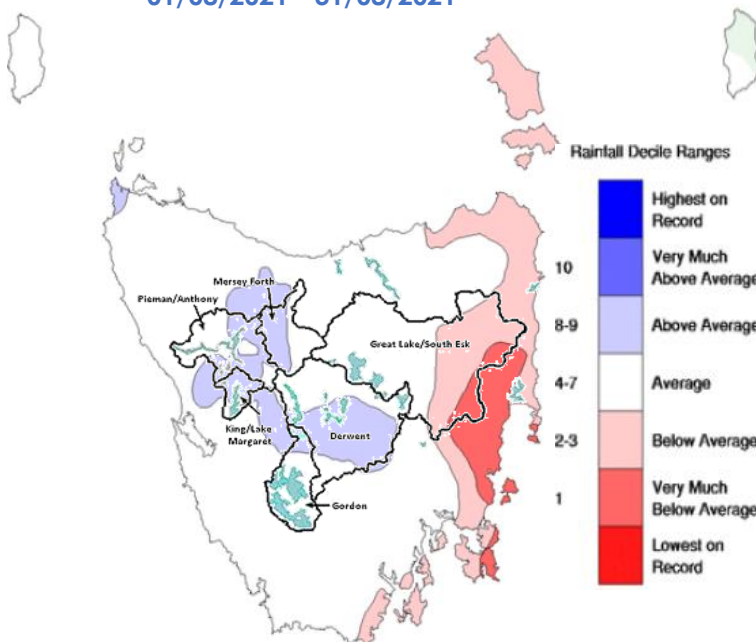
### Rainfall in Tasmania - August 2021

August rainfall was above average for the central-west, and below average along parts of the east coast. Parts of the Mersey-Forth, Upper Derwent, Pieman/Anthony, and King/Lake Margaret received above average rainfalls, but overall, most of the state had near average August totals. August 2021 rainfall was slightly higher than August 2020. The mean minimum temperature for Tasmania as a whole was 1.19 °C warmer than average, the 10th highest on record and the highest since 2011.

### Three month forecast

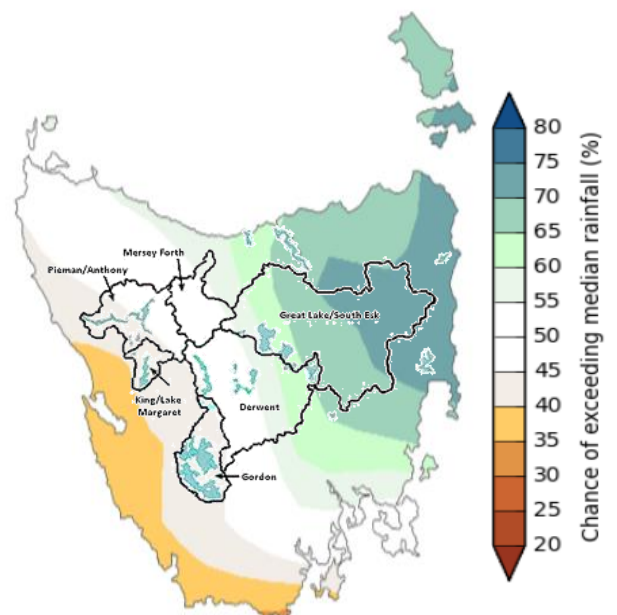
The Bureau of Meteorology's three month climate outlook for September 2021 to November 2021, issued on 2 September 2021, estimates it is more likely than not that rainfall will be at or above the median level in north-east Tasmania, and less likely than not that rainfall in western Tasmania will be above the median level. The majority of dams, consisting of Gordon, King/Lake Margaret and Pieman/Anthony, have a probability of exceeding the median rainfall of approximately 40 per cent.

### Monthly Rainfall Deciles for Tasmania 01/08/2021 - 31/08/2021



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

### Likelihood of Exceeding the Median Rainfall September to November 2021



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.*