



TASMANIAN ENERGY SECURITY Monitor and Assessor



Monthly Dashboard

November 2021 edition

Report on energy in storage levels and energy security assessment for mainland Tasmania as at 1 November 2021.

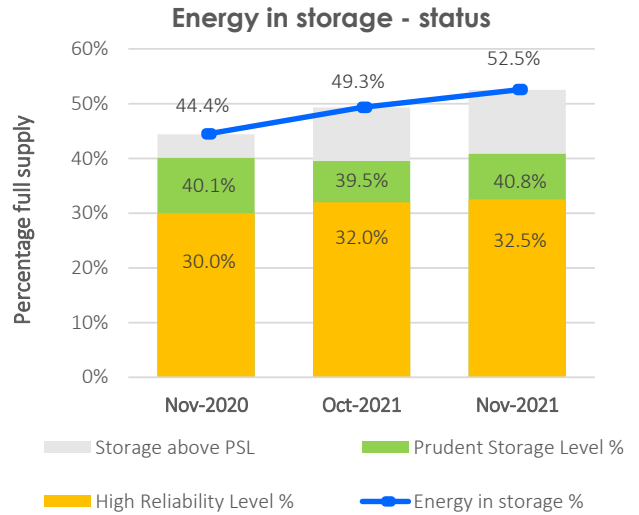
Status

Energy in storage remains well above the Prudent Storage Level.
 Energy in storage is equivalent to 8.7 months average seasonal demand.[^]
 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.

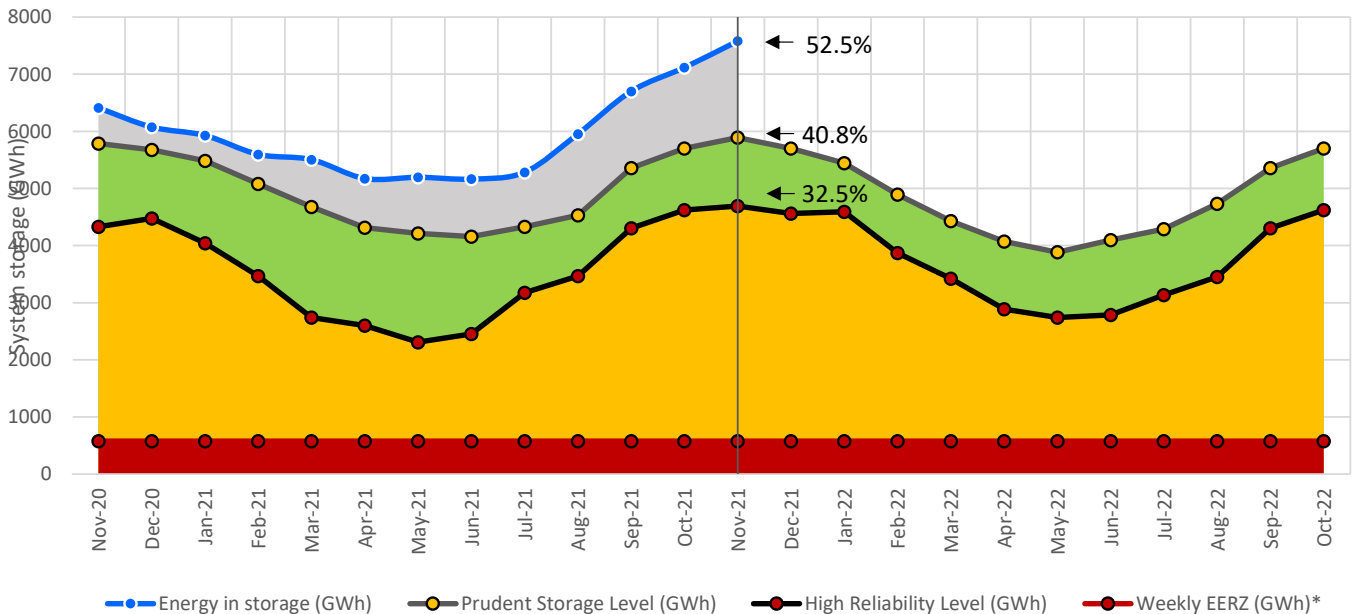
Energy security assessment:
 no additional monitoring activities required

Energy in storage (EIS)

	System	PSL	HRL
As at 1 November 2021 (GWh)	7 580	5 890	4 692
Percentage full supply #	52.5%	40.8%	32.5%
Total October inflows~ (GWh)	1 297		
Previous month (as at 4 October 2021) (GWh)	7 117		
Change from last month (GWh)	+6.5%		
Change from November last year (GWh)	+18%		



Energy in storage (mainland Tasmania) - November 2020 to November 2021**



[^] Average seasonal demand for the energy in storage equivalent is approximately 874 GWh per month.

[#] Total system supply is 14 437 GWh (excludes Lake Gairdner, Lake Margaret and Lake Plimsoll).

[~] 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 Office of the Tasmanian Economic Regulator's website, available [here](#)

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).

October statistics

Mainland Tasmanian generation during October 2021

Tasmanian monthly consumption	925.2 GWh
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Renewable generation

Hydro generation	852.2 GWh
Wind generation	161.1 GWh

Gas

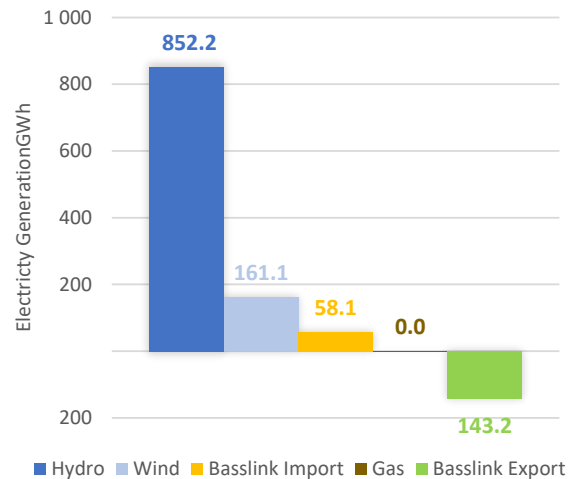
Gas generation	Operational 0.0 GWh
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Basslink flows during October 2021

Basslink interconnector

Basslink imports	58.1 GWh
Basslink exports	143.2 GWh
Basslink net exports	85.1 GWh

Mainland Tasmanian generation mix (October 2021)



Energy security outlook

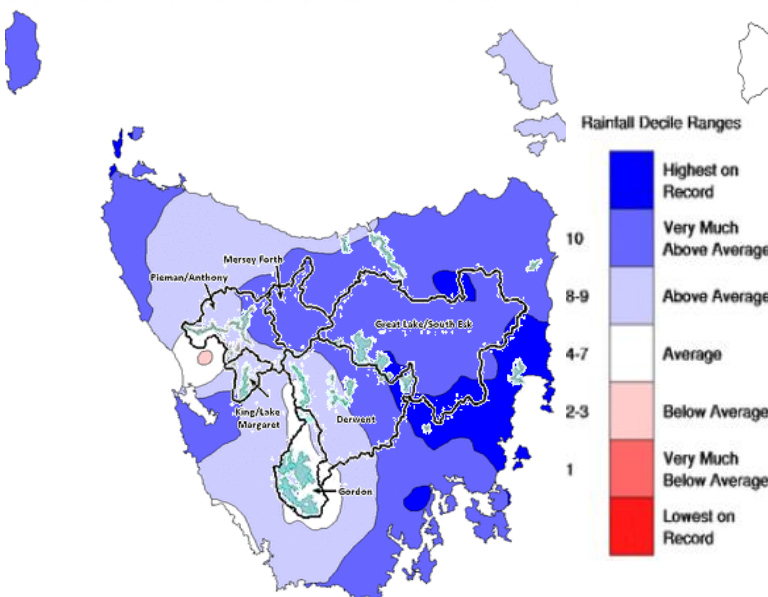
Rainfall in Tasmania - October 2021

October rainfall was 69 per cent above average for Tasmania overall. Parts of eastern Tasmania had their wettest October on record, and for many other sites it was their highest October rainfall level in 20 years. In western and south-western Tasmania, rainfall was close to average. Overall, October 2021 was the 10th wettest on record and the wettest since 2016. It was also the 6th warmest October on record and the warmest since 2017. Night time temperatures were warmer than average, although some east coast and south-east districts had their coldest October day on record.

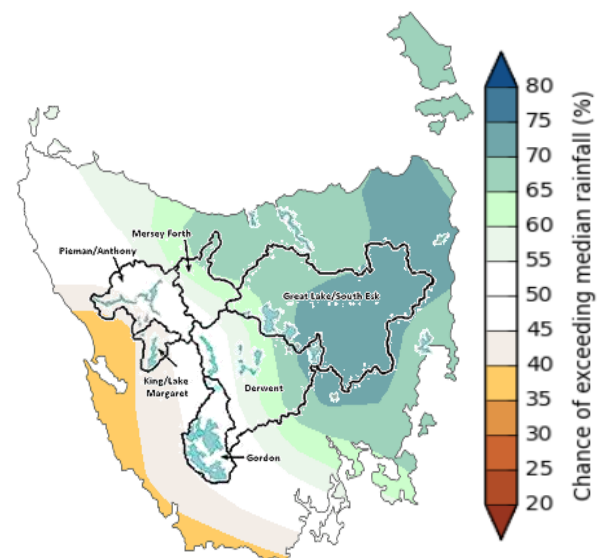
Three month forecast

The Bureau of Meteorology's three month climate outlook for November 2021 to January 2022, issued on 28 October 2021, estimates it is more likely than not that rainfall will be below the median level in western Tasmania, but above median levels are expected for eastern Tasmania (chance of exceeding median in the east is greater than 60 per cent). Rainfall in eastern Tasmania is likely to be unusually high.

Monthly Rainfall Deciles for Tasmania 01/10/2021 - 31/10/2021



Likelihood of Exceeding the Median Rainfall November 2021 to January 2022



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

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.