TASMANIAN ENERGY SECURITY Monitor and Assessor

Monthly Dashboard

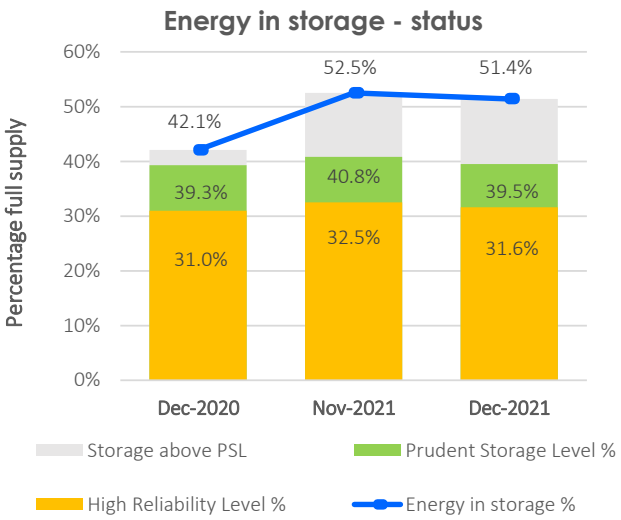
December 2021 edition

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

Status

Energy in storage remains well above the Prudent Storage Level.
Energy in storage is equivalent to 8.4 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.

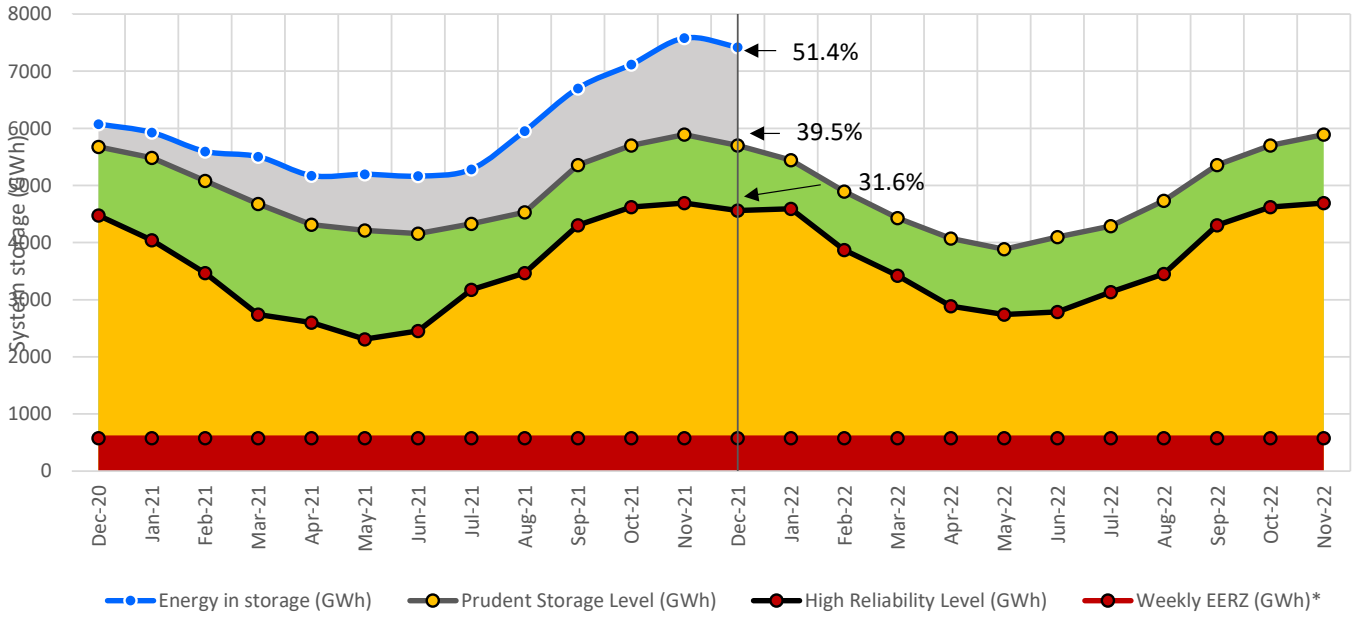
Energy security assessment:
no additional monitoring activities required



Energy in storage (EIS)

	System	PSL	HRL
As at 6 December 2021 (GWh)	7 423	5 703	4 562
Percentage full supply #	51.4%	39.5%	31.6%
Total November inflows~ (GWh)	735		
Previous month (as at 1 November 2021) (GWh)	7 580		
Change from last month (GWh)	-2.1%		
Change from December last year (GWh)	+22%		

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



^ Average seasonal demand for the energy in storage equivalent is approximately 888 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).

November statistics

Mainland Tasmanian generation during November 2021

Tasmanian monthly consumption	855.4 GWh

Renewable generation

Hydro generation	822.6 GWh
Wind generation	111.6 GWh

Gas

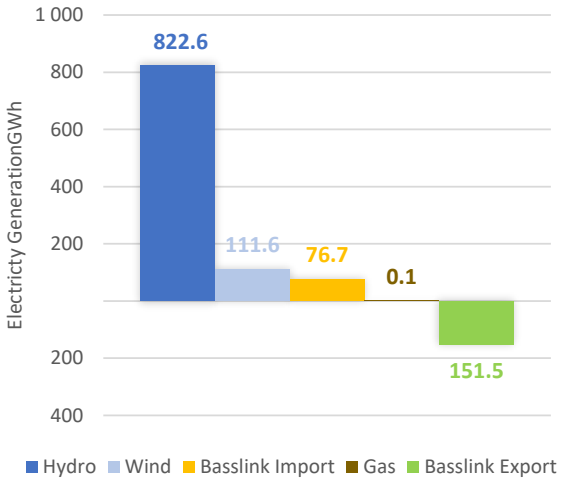
	Operational
Gas generation	0.1 GWh

Basslink flows during November 2021

Basslink interconnector

Basslink imports	76.7 GWh
Basslink exports	151.5 GWh
Basslink net exports	74.8 GWh

Mainland Tasmanian generation mix (November 2021)



Energy security outlook

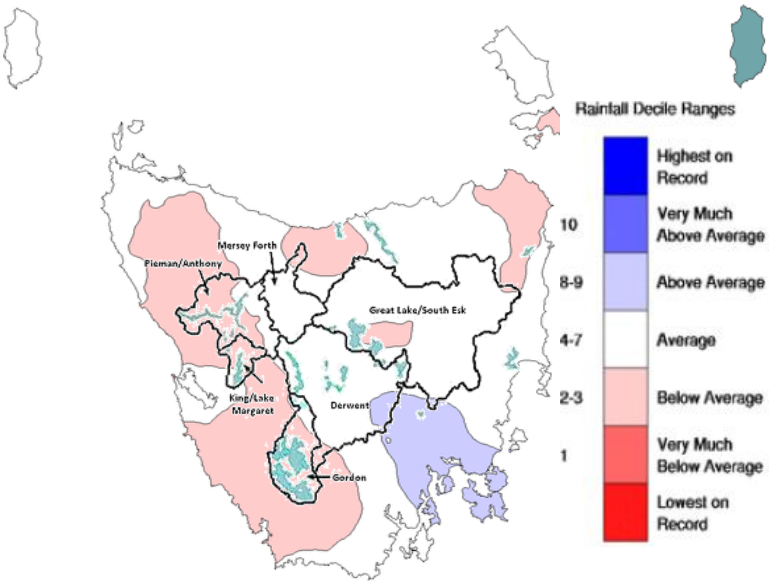
Rainfall in Tasmania - November 2021

November rainfall was 24 per cent below average for Tasmania overall, but still the highest since 2019. Parts of western and north-eastern Tasmania had less than 60% of their average November rainfall, while rainfall for parts of the Tasman Peninsula was more than 150% of the average for November. In central, easterns and southern parts of Tasmania, heavy rain was recorded on 10 November. The mean maximum temperature for Tasmania was 0.3 degrees above average, and the mean minimum temperature was 0.57 degrees cooler than average. Some sites had their coldest November day on record.

Three month forecast

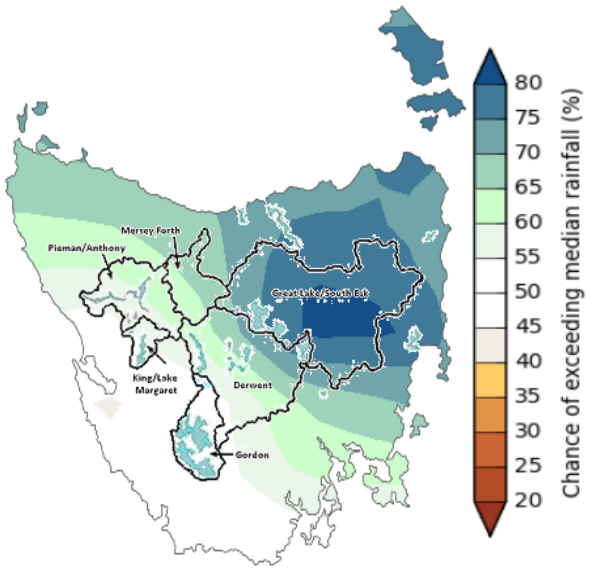
The Bureau of Meteorology's three month climate outlook for December 2021 to February 2022, issued on 2 December 2021, estimates it is likely that rainfall will be above the median for eastern Tasmania but below the median in western Tasmania. December rainfall is likely to be above the median in eastern Tasmania but below the median in western Tasmania. There is an increased chance (1.5 to 3.0 times the usual chance) of unusually high rainfall (in the top 20% of historical records) for December to February in eastern Tasmania.

Monthly Rainfall Deciles for Tasmania 1 November 2021 - 30 November 2021



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

Likelihood of Exceeding the Median Rainfall December 2021 to February 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.