

TASMANIAN ENERGY SECURITY Monitor and Assessor



Monthly Dashboard

June 2022 edition

Report on energy in storage levels and energy security assessment for mainland Tasmania as at 6 June 2022.

Status

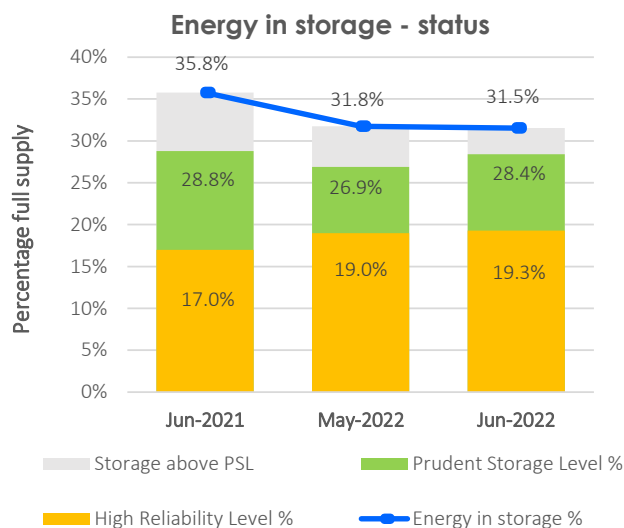
Energy in storage remains above the Prudent Storage Level.
Energy in storage is equivalent to 4.7 months average seasonal demand.[^]
Risk response: Normal - commercial operation of Hydro Tasmania generation.
Hydro Tasmania reports that storages remain above the High Reliability Level over the next 120 days 95% or more of all its simulated inflow



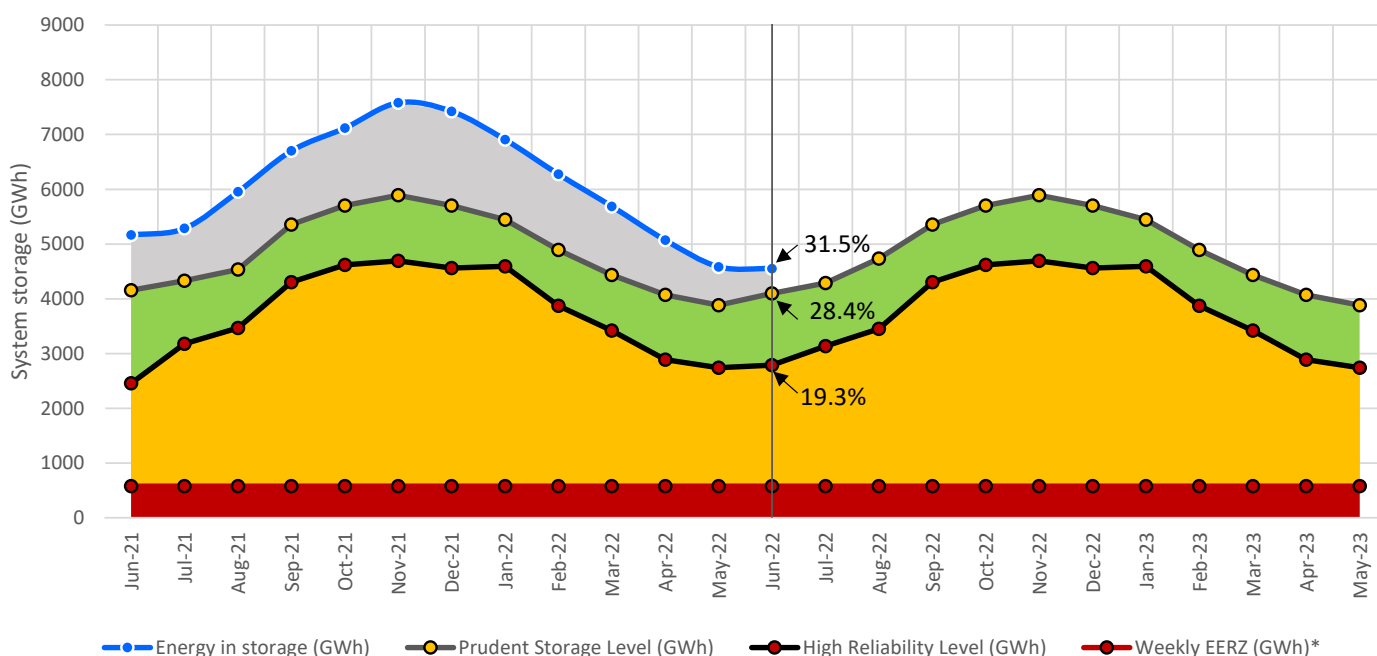
Energy security assessment:
increased monitoring activities required

Energy in storage (EIS)

	System	PSL	HRL
As at 6 June 2022 (GWh)	4 552	4 100	2 786
Percentage full supply [#]	31.5%	28.4%	19.3%
Total May yield [~] (GWh)	960.0		
Previous month (as at 2 May 2022) (GWh)	4 585		
Change from last month (GWh)	-0.7%		
Change from June last year (GWh)	-11.9%		



Energy in storage (mainland Tasmania) - June 2021 to June 2022**



[^] Average seasonal demand for the energy in storage equivalent is approximately 967 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).

May statistics

Mainland Tasmanian generation during May 2022

Tasmanian monthly consumption	970.7 GWh
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Renewable generation

Hydro generation	944.8 GWh
Wind generation	149.2 GWh

Gas

Gas generation	4.7 GWh
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Basslink flows during May 2022

Basslink interconnector

Basslink interconnector	Operational
Basslink imports	39.6 GWh
Basslink exports	158.0 GWh
Basslink net exports	118.4 GWh

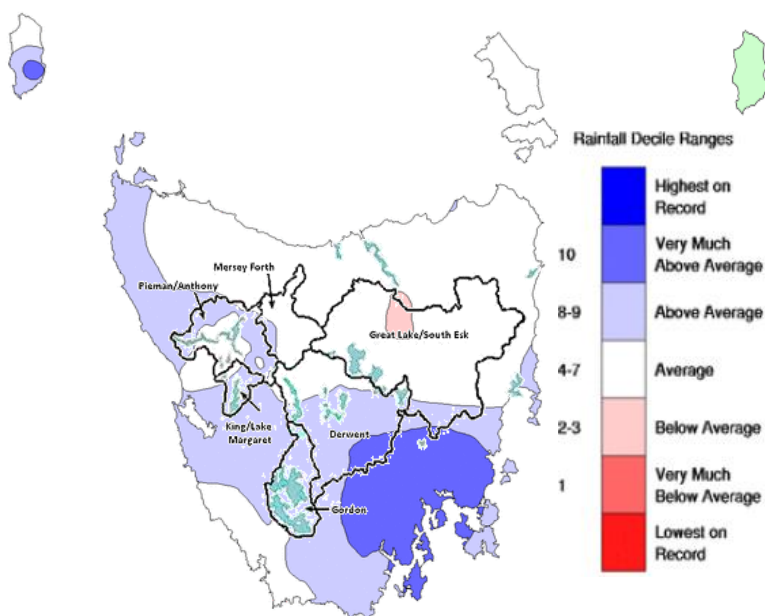
Energy security outlook

Water storage levels declined in the first half of 2022 due to lower than average inflows. However, storage levels have stabilised since the beginning of May. While the energy security risk is assessed as remaining very low, increased monitoring will take place to enable the Monitor and Assessor to receive more frequent updates.

Rainfall in Tasmania - May 2022

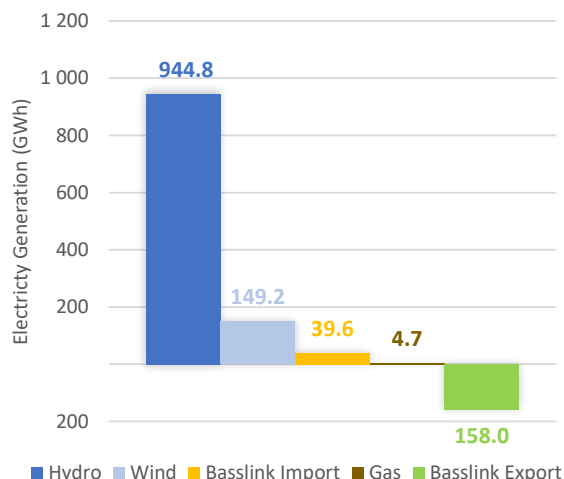
May was wetter than average for most of the State. Some sites, mostly in the south-east, had their highest May daily rainfall on record. Some sites also had their highest total May rainfall on record. The mean maximum temperature for Tasmania as a whole was 0.32°C above average. Overall, Tasmanian rainfall was 9% above the average for the month of May. In the west, where the majority of Hydro Tasmania's catchments are, rainfall was average to above average for the first time since October 2021.

Monthly Rainfall Deciles for Tasmania 1 May 2022 - 31 May 2022



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

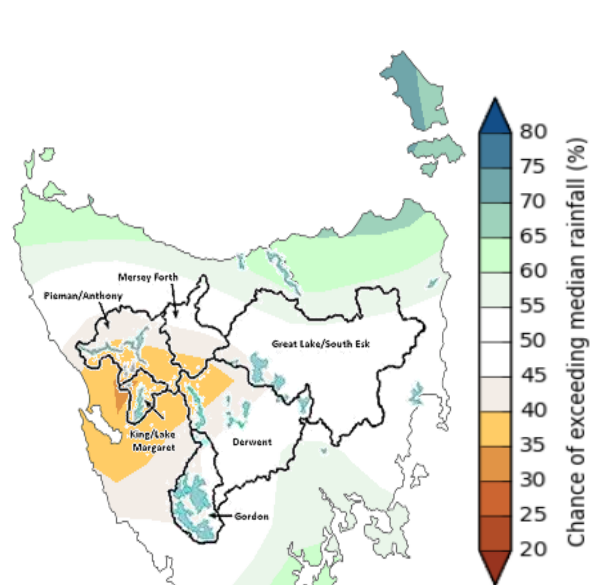
Mainland Tasmanian generation mix May 2022



Three month forecast

The Bureau of Meteorology's three month climate outlook for June 2022 to August 2022, issued on 2 June 2022, estimates that it is likely that Hydro Tasmania's catchments receive below median rainfall over the next three months (chances of exceeding the median are less than 40%), with a few exceptions. Lake Gordon and *Yingina* /Great Lake, which typically hold a third each of Hydro Tasmania's available energy in storage at any point in time, both have roughly equal chances of receiving above or below average rainfall.

Likelihood of Exceeding the Median Rainfall June 2022 to August 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.