TASMANIAN ENERGY SECURITY Monitor and Assessor

Monthly Dashboard

January 2021 edition

Report on energy in storage levels and energy security assessment for mainland Tasmania as at 4 January 2021

Status

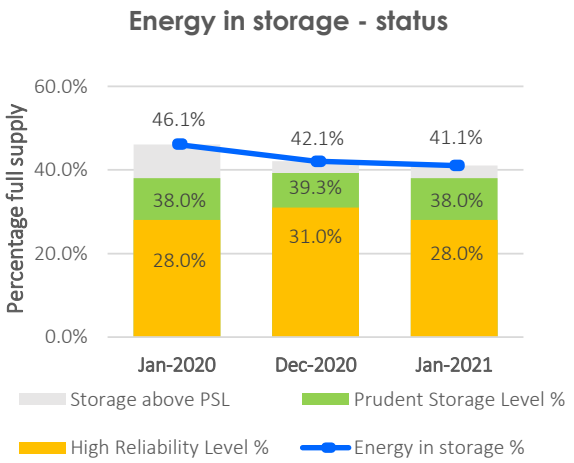
Energy in storage remains above the Prudent Storage Level.
Energy in storage is equivalent to 6.6 months average seasonal demand.^
Risk response: Normal - commercial operation of Hydro Tasmania generation.
Hydro Tasmania reports that storages remain above the High Reliability Level over the next 120 days in all its simulated inflow sequences.

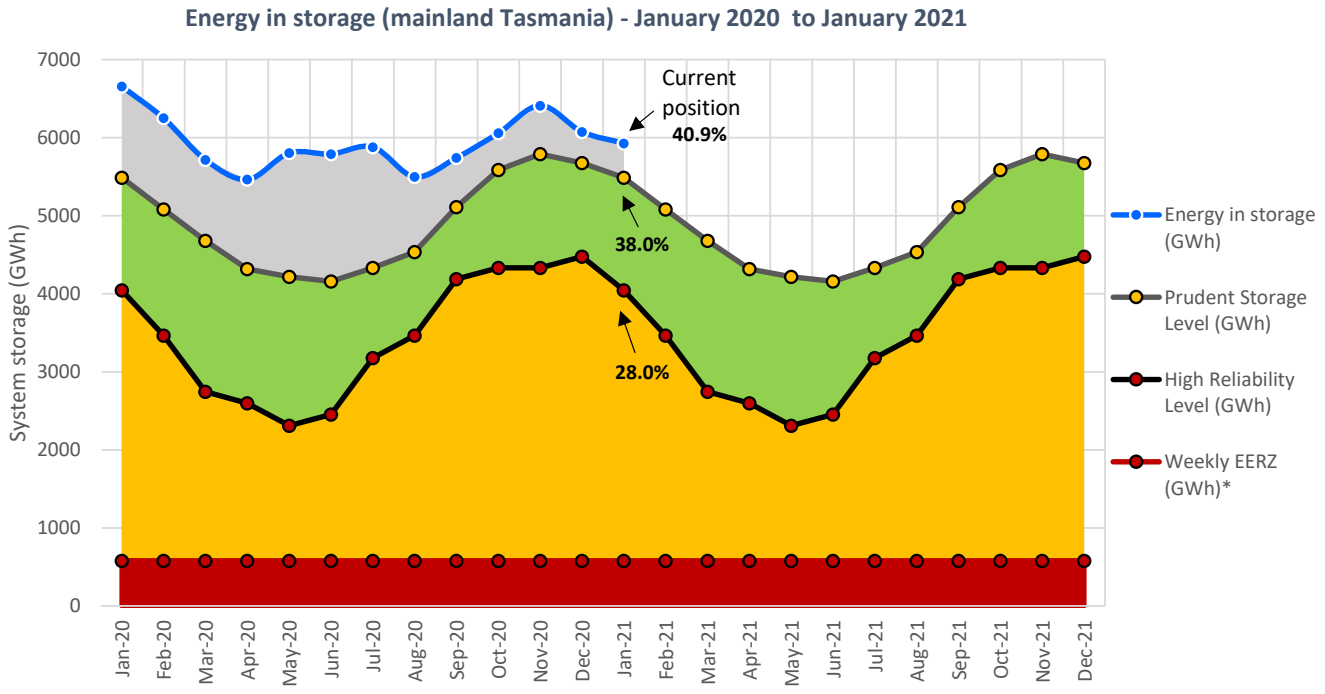
Energy security assessment:
no additional monitoring activities required

Energy in storage (EIS)

	System	PSL	HRL
As at 4 January 2021 (GWh)	5927	5486	4042
Percentage full supply	41.1%	38.0%	28.0%
Total December inflows~ (GWh)	364		
As at 7 December 2020 (GWh)	6075		
Change from last month (GWh)	-2.4%		
Compared to January last year (GWh)	-10.9%		

System (14437 GWh) - excludes Lake Gairdner, Lake Margaret & Lake Plimsoll





^Average seasonal demand for the energy in storage equivalent is approximately 892 GWh per month.
~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 % of full supply).

December statistics

Mainland Tasmanian generation during December 2020

Tasmanian monthly consumption	841.9 GWh

Renewable generation

Hydro generation	494.6 GWh
Wind generation	182.2 GWh

Gas

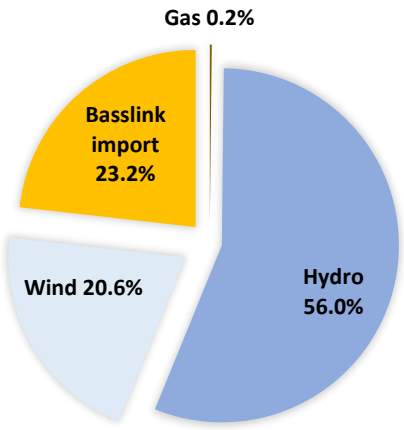
	Operational
Gas generation	1.5 GWh

Basslink flows during December 2020

Basslink interconnector

	Operational
Basslink imports	205.0 GWh
Basslink exports	40.3 GWh
Basslink net imports	164.7 GWh

Mainland Tasmanian generation mix



Energy security outlook

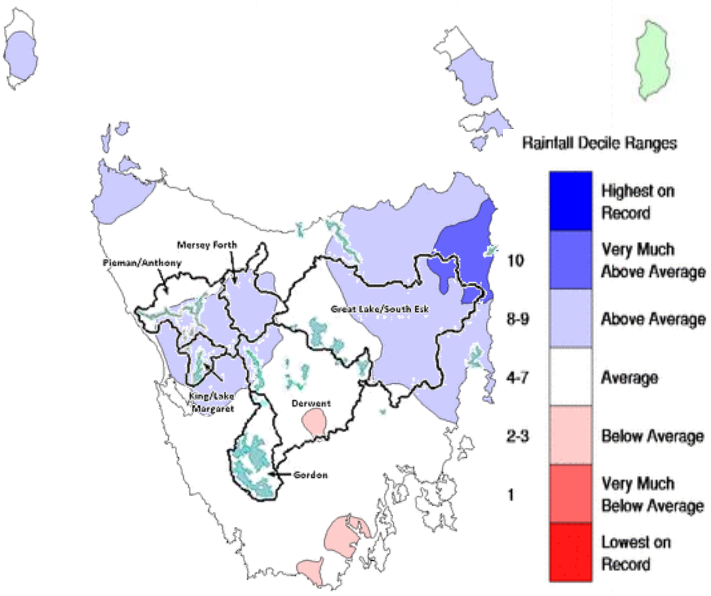
Rainfall in Tasmania - December 2020

Rainfall was above average across the north-east and parts of the north-west. Elsewhere, rainfall was close to average for December, except in parts of the far south where it was a drier than average month. Persistent rainfall during the third week of December contributed to monthly totals in the wettest 10 per cent of records for parts of the north-east. However, as rain was primarily concentrated in the north-east, the effect on hydro storage levels was minimal.

Three month forecast

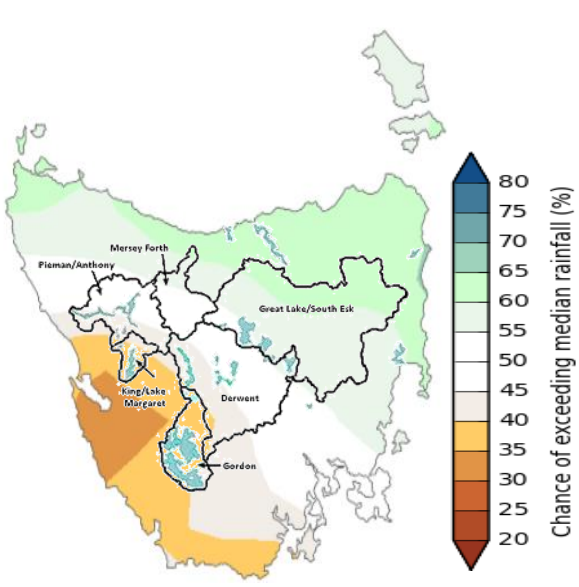
The Bureau of Meteorology's three month climate outlook for January 2021 to March 2021, issued on 24 December 2020, estimates it is likely that rainfall will be around or slightly above the median level in North-east Tasmania, around or below the median level in North-west Tasmania, and below the median level for South-west Tasmania. Lake Margaret and Gordan are expected to receive below average inflows, with an approximately 35 per cent chance of the catchment areas exceeding the median rainfall.

Monthly Rainfall Deciles for Tasmania 01/12/2020 - 31/12/2020



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

Likelihood of Exceeding the Median Rainfall January to March 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.