



TASMANIAN ENERGY SECURITY Monitor and Assessor



Monthly Dashboard

October 2020 edition

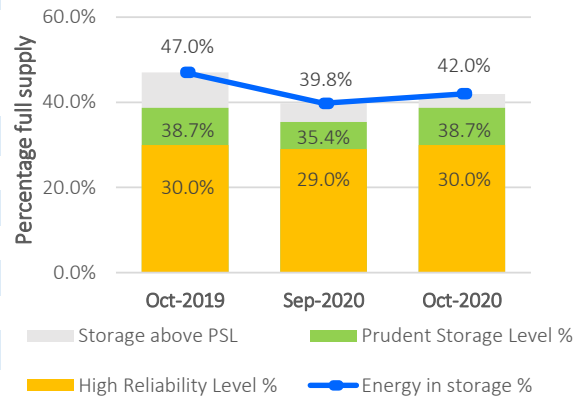
Report on energy in storage levels and energy security assessment for mainland Tasmania as at 5 October 2020

Status

Energy in storage remains above the Prudent Storage Level.
 Energy in storage is equivalent to 7.07 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 90 days in all its simulated inflow sequences.

Energy security assessment:
 no additional monitoring activities required

Energy in storage - status

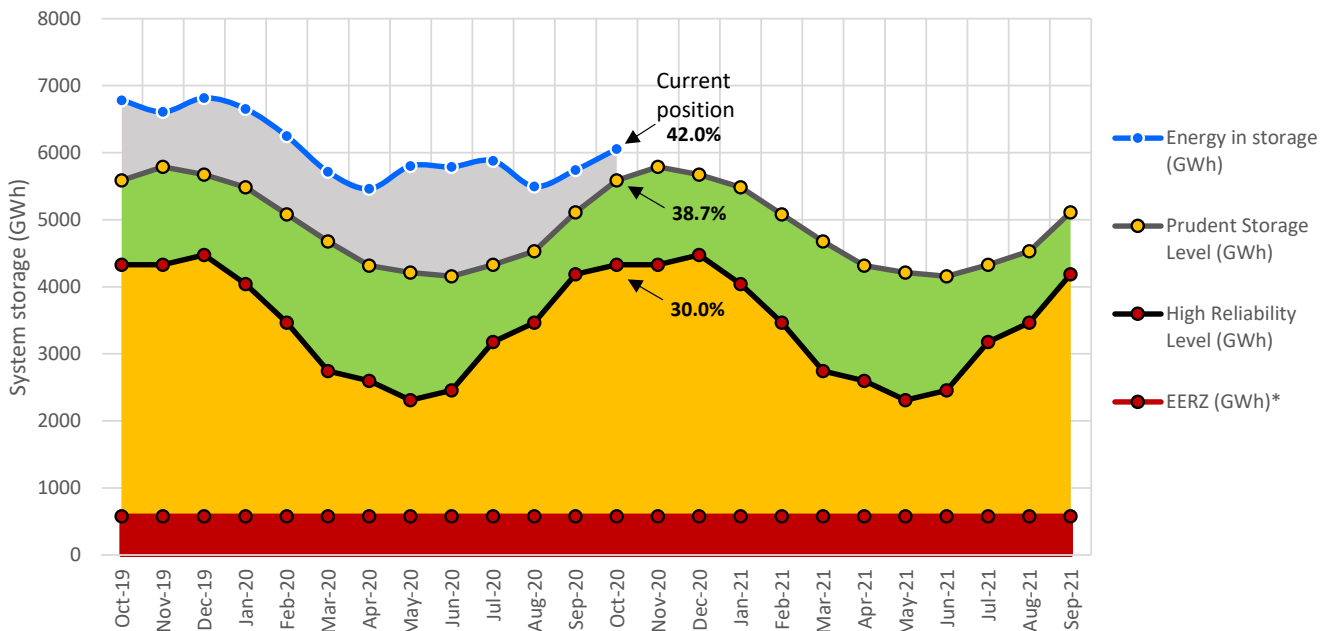


Energy in storage (EIS)

	System	PSL	HRL
As at 5 October 2020 (GWh)	6057	5587	4331
Percentage full supply	42.0%	38.7%	30.0%
Total September inflows~ (GWh)	964		
As at 7 September 2020 (GWh)	5743		
Change from last month (GWh)	5.5%		
Compared to October last year	-10.7%		

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

Energy in storage (mainland Tasmania) - September 2019 to September 2020



[^]Average seasonal demand for the energy in storage equivalent is approximately 857 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).

September statistics

Mainland Tasmanian generation during September 2020

Tasmanian monthly consumption	909.9 GWh
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Renewable generation

Hydro generation	690.5 GWh
Wind generation	186.1 GWh

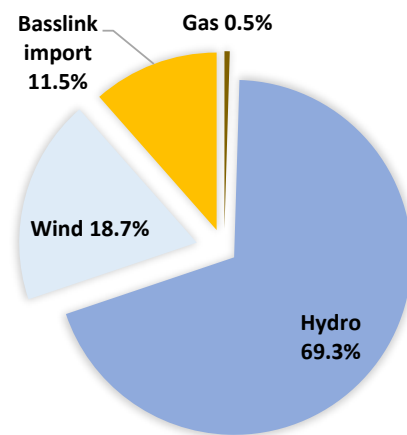
Gas

Gas generation	Operational
Gas generation	4.8 GWh

Basslink flows during September 2020

Basslink interconnector	Operational
Basslink imports	114.4 GWh
Basslink exports	83.6 GWh
Basslink net imports	30.9 GWh

Mainland Tasmanian generation mix



Energy security outlook

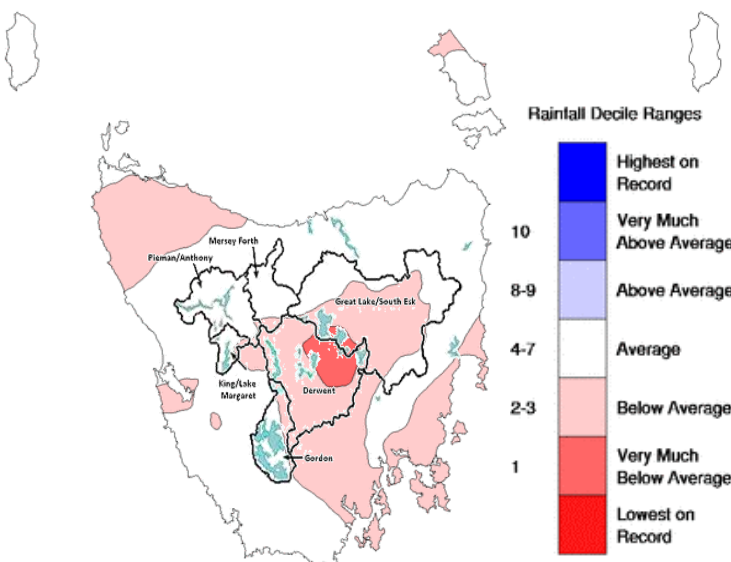
Rainfall in Tasmania - September

September 2020 was drier than average from the Central Highlands to the south-east coast, and in parts of the north-west. Overall, rainfall was around 21% below average. September was the fourth month in a row of below average rainfall for parts of the north-west.

Three month forecast

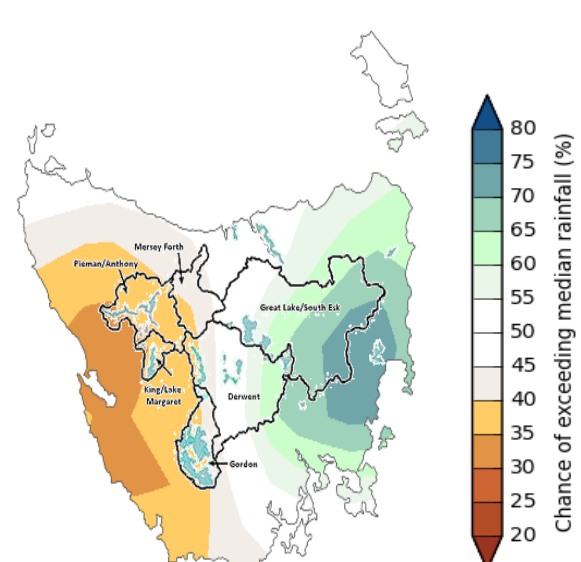
The Bureau of Meteorology's three month climate outlook for October 2020 to December 2020, issued on 1 October 2020, estimates it is likely that rainfall will be above the median level in north-east Tasmania, but below the median for north-west Tasmania.

Monthly Rainfall Deciles for Tasmania 01/09/2020 - 30/09/2020



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

Likelihood of Exceeding the Median Rainfall October to December 2020



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.