



TASMANIAN ENERGY SECURITY

Monitor and Assessor

Monthly Dashboard



July 2019 edition

Report on energy in storage levels and energy security assessment for mainland Tasmania as at 1 July 2019

Status

Energy in storage is above the Prudent Storage Level
 Energy in storage is equivalent to 5.0 months average 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 of its simulated inflow sequences.

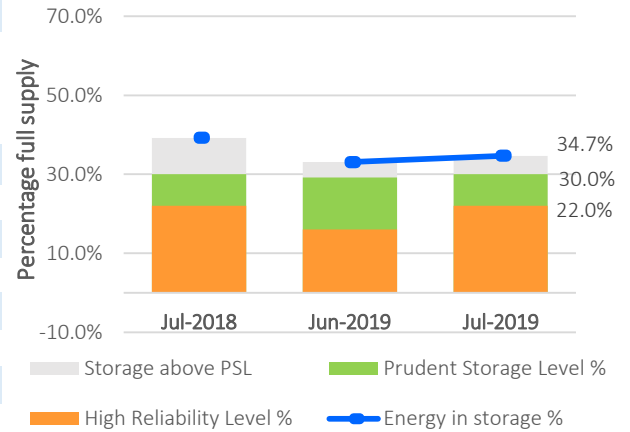
Energy security assessment:
 no additional monitoring activities required

Energy in storage (EIS)

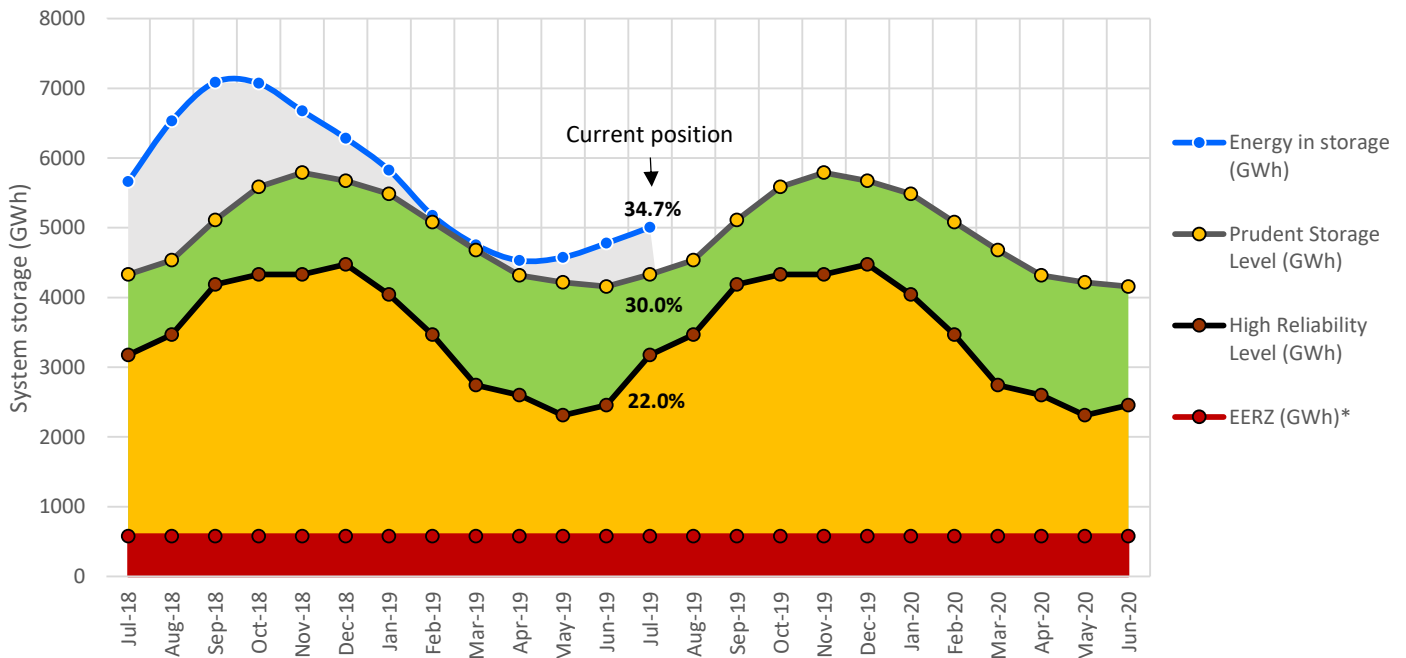
	System	PSL	HRL
As at 1 July 2019 (GWh)	5007	4331	3176
Percentage full supply	34.7%	30.0%	22.0%
Total June inflows~ (GWh)	1207		
As at 3 June 2019 (GWh)	4778		
Change from last month (GWh)	+4.8%		
Compared to July last year (GWh)	-11.6%		

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

Energy in storage - status



Energy in storage (mainland Tasmania) - July 2018 to July 2019



[^]Average monthly demand is around 900 GWh in autumn and spring months. This decreases to around 800 GWh in summer months and increases to around 1 000 GWh in winter months.

~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 reduce the likelihood of entering the HRL under normal operating conditions).

EIS = Energy in storage (the volume of water in Hydro Tasmania's dams as a % of full supply).

June statistics

Mainland Tasmanian generation during June 2019

Tasmanian monthly demand 985.2 GWh

Renewable generation

Hydro generation 961.3 GWh

Wind generation 77.1 GWh

Tamar Valley Power Station

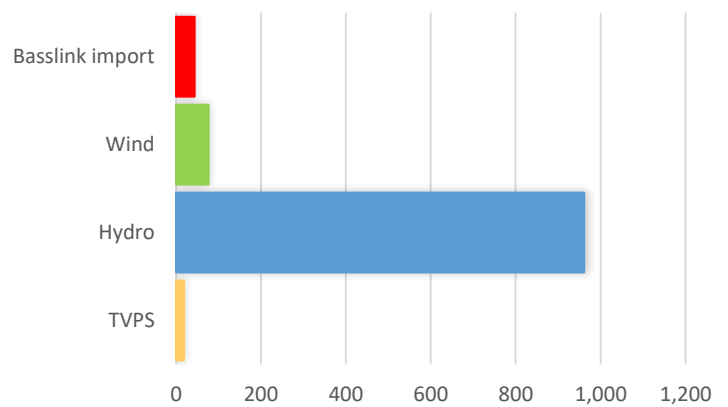
Operational
TVPS generation 19.1 GWh

Basslink interconnector

Operational
Basslink imports 44.1 GWh

Basslink exports 116.4 GWh

Monthly generation mix (GWh)

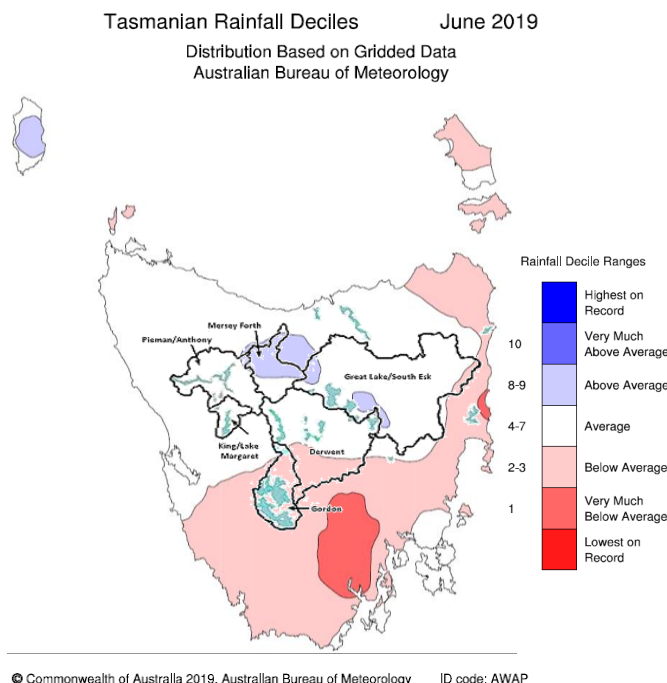


Hydro generation provided the majority of all electricity required to meet mainland Tasmanian demand during June 2019. This was supplemented by wind, Basslink and TVPS.

Energy security outlook

Rainfall in Tasmania - June

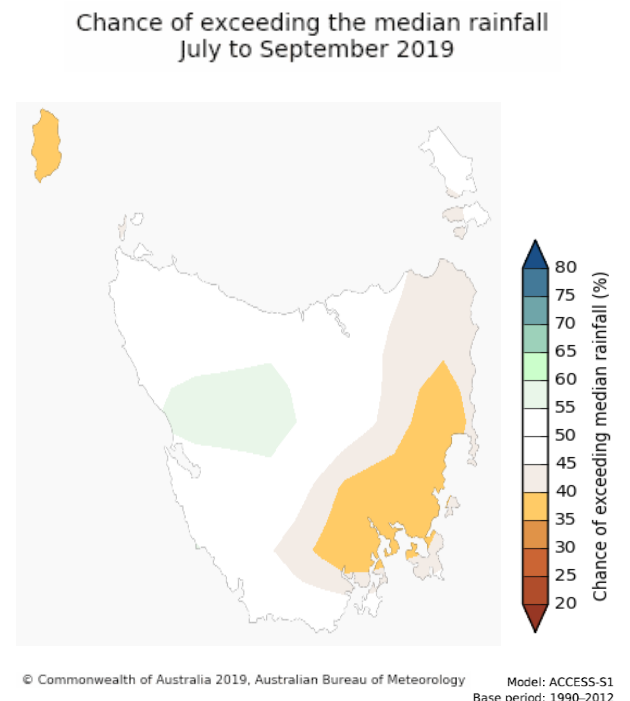
The Bureau of Meteorology's monthly climate summary notes that June rainfall levels were below average in most of the State, but above average in parts of the northwest due to moderate to locally heavy falls in the last few days of June. Tasmania's total rainfall for the month was around 9 per cent below average. The map below shows rainfall deciles for the month, including for Hydro Tasmania's storage catchments.



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

Three month forecast

The Bureau of Meteorology's three month climate outlook for July to September 2019, issued on 27 June 2019, shows that a drier than average three months is likely for the southeast of the State, while there is a marginally higher probability of above median rainfall in the west, as shown on the map below.



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.