



# TASMANIAN ENERGY SECURITY

## Monitor and Assessor

### Monthly Dashboard



#### June 2019 edition

Report on energy in storage levels and energy security assessment for mainland Tasmania as at 3 June 2019

#### Status

Energy in storage is above the Prudent Storage Level  
 Energy in storage is equivalent to 4.8 months average demand<sup>^</sup>  
 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.

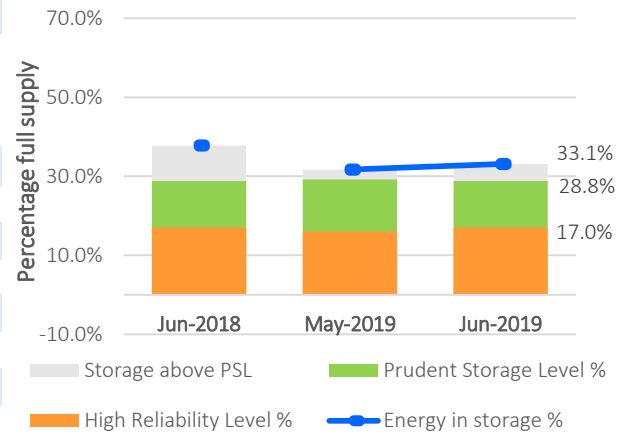
Energy security assessment:  
 no additional monitoring activities required

#### Energy in storage (EIS)

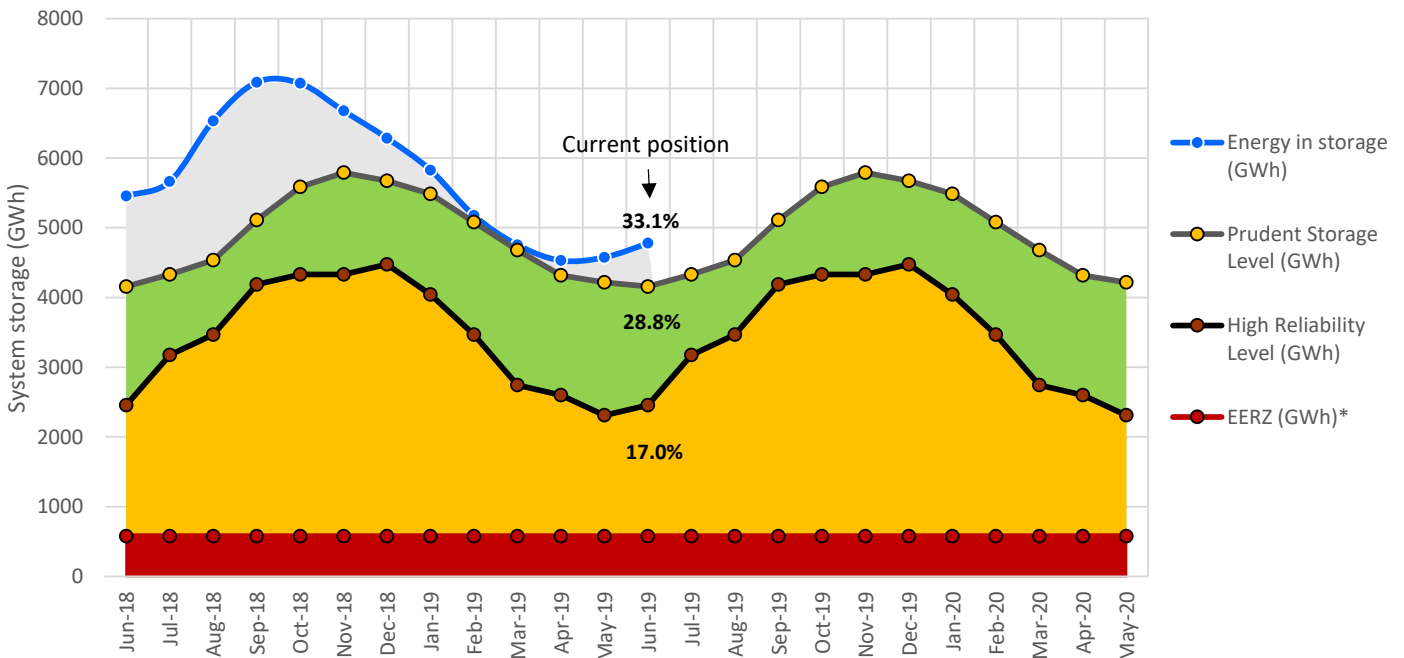
	System	PSL	HRL
As at 3 June 2019 (GWh)	4778	4158	2454
Percentage full supply	<b>33.1%</b>	28.8%	17.0%
Total May inflows <sup>~</sup> (GWh)	978		
As at 6 May 2019 (GWh)	4576		
Change from last month (GWh)	+4.4%		
Compared to June last year (GWh)	-12.4%		

System (14437 GWh) - excludes Lake Gardiner, Lake Margaret & Lake Plimsol

#### Energy in storage - status



#### Energy in storage in mainland Tasmania - 24 month



<sup>^</sup>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.

<sup>~</sup>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).

## May statistics

### Mainland Tasmanian generation during May 2019

Tasmanian monthly demand 949.3 GWh

#### Renewable generation

Hydro generation 788.2 GWh

Wind generation 102.5 GWh

#### Tamar Valley Power Station

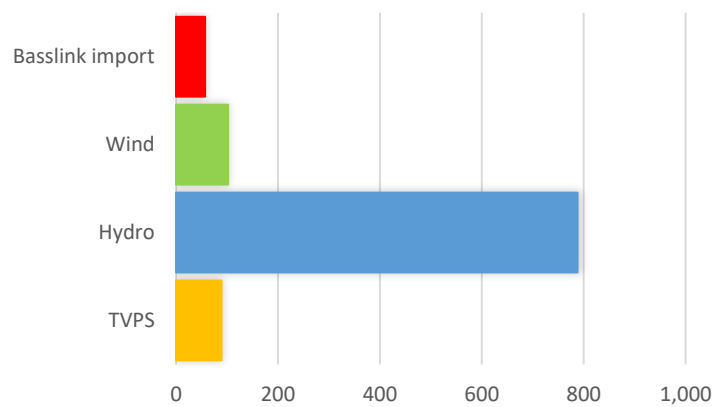
Operational  
TVPS generation 89.4 GWh

#### Basslink interconnector

Operational  
Basslink imports 57.3 GWh

Basslink exports 88.0 GWh

### Monthly generation mix (GWh)

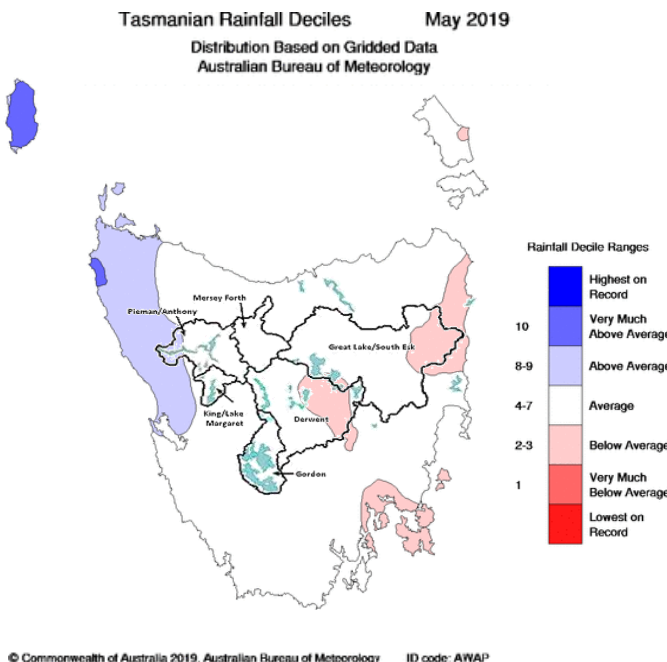


Hydro generation provided the majority of all electricity required to meet mainland Tasmanian demand during May 2019. This was supplemented by TVPS, wind and Basslink.

## Energy security outlook

### Rainfall in Tasmania - May

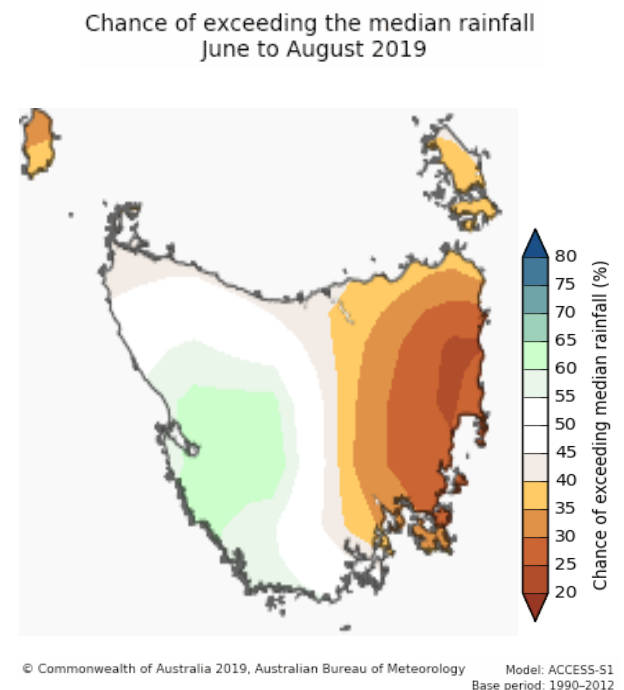
The Bureau of Meteorology's monthly climate summary notes that May rainfall levels were average in most of the State, but above average in the west and northwest and below average in the east, particularly the southeast. Tasmania's total rainfall for the month was around 4 per cent below average. The 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 June to August 2019, issued on 30 May 2019, shows that there is a marginally higher probability of above median rainfall in the west, but 50% or lower probability for median rainfall in most of the State, as shown in 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.*