



TASMANIAN ENERGY SECURITY

Monitor and Assessor

Monthly Dashboard



September 2019 edition

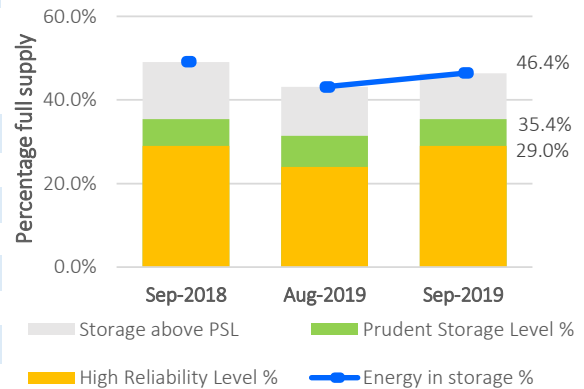
Report on energy in storage levels and energy security assessment for mainland Tasmania as at 2 September 2019

Status

Energy in storage is well above the Prudent Storage Level
 Energy in storage is equivalent to 7.4 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 of its simulated inflow sequences.

Energy security assessment:
 no additional monitoring activities required

Energy in storage - status



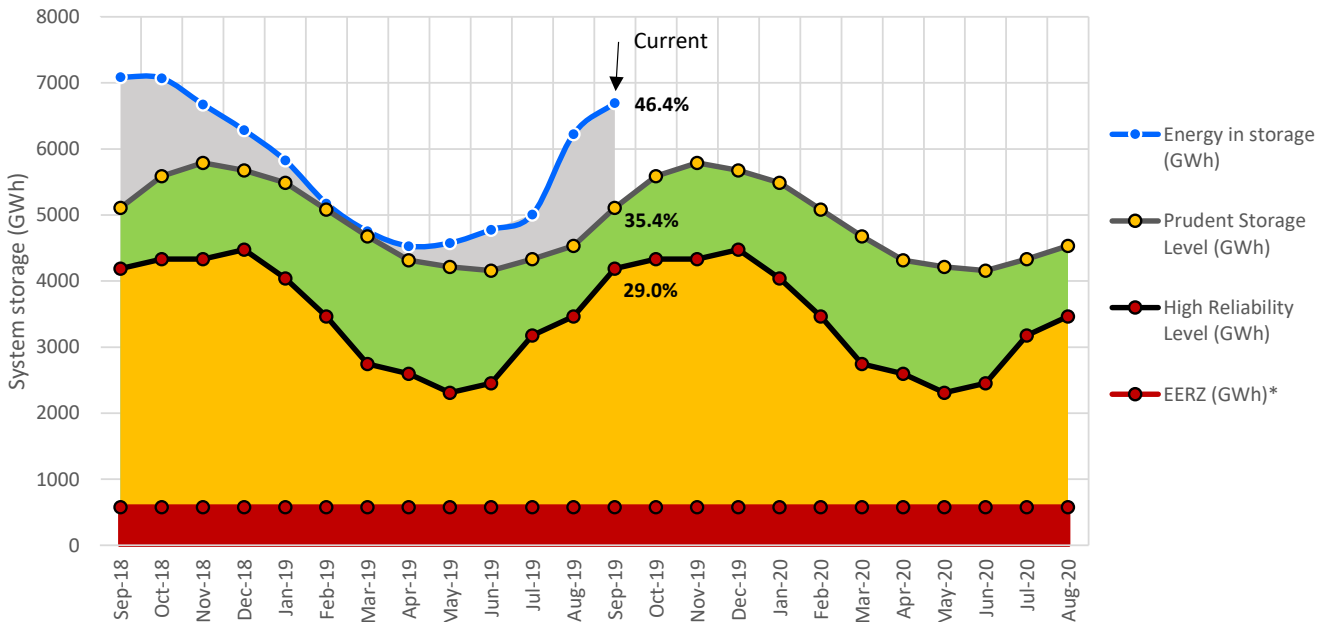
Energy in storage (EIS)

	System	PSL	HRL
As at 2 September 2019 (GWh)	6696	5111	4187
Percentage full supply	46.4%	35.4%	29.0%
Total August inflows [~] (GWh)	1432		

As at 5 August 2019 (GWh)	6226
Change from last month (GWh)	+7.6%
Compared to September last year	-5.5%

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

Energy in storage (mainland Tasmania) - September 2018 to September 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).

August statistics

Mainland Tasmanian generation during August 2019

Tasmanian monthly demand 997.8 GWh

Renewable generation

Hydro generation 994.6 GWh

Wind generation 108.3 GWh

Tamar Valley Power Station

Operational

TVPS generation 15.3 GWh

Basslink interconnector

Unavailable[†]

Basslink imports 20.4 GWh

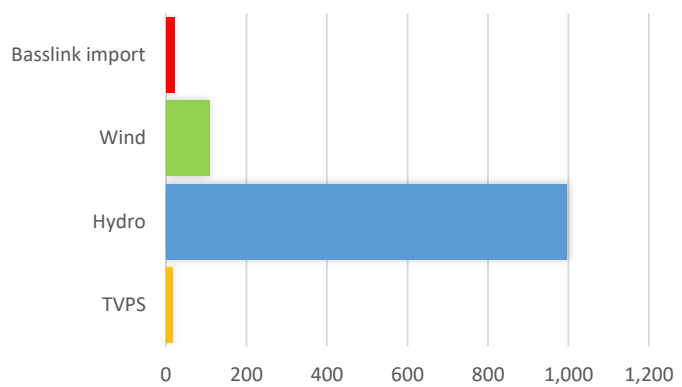
Basslink exports 140.7 GWh

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

[†]Basslink interconnector status: Unavailable as of 24 August 2019.

On 26 August 2019 Basslink Pty Ltd advised that, based on information at that time, the interconnector will be offline until mid-October 2019.

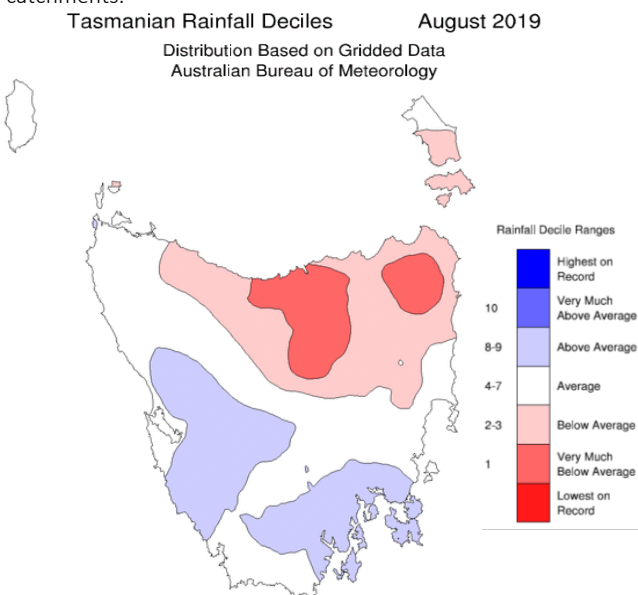
Monthly generation mix (GWh)



Energy security outlook

Rainfall in Tasmania - August

The Bureau of Meteorology's monthly climate summary notes that total rainfall for Tasmania in August was about 3% below average. Much of the north of the State, and especially the northeast, was drier than average. Low pressure systems brought several wet days to southeastern Tasmania during August, and westerly winds brought rain to the west, but the northeast had a mostly dry month. The map below shows rainfall deciles for the month, including for Hydro Tasmania's storage catchments.



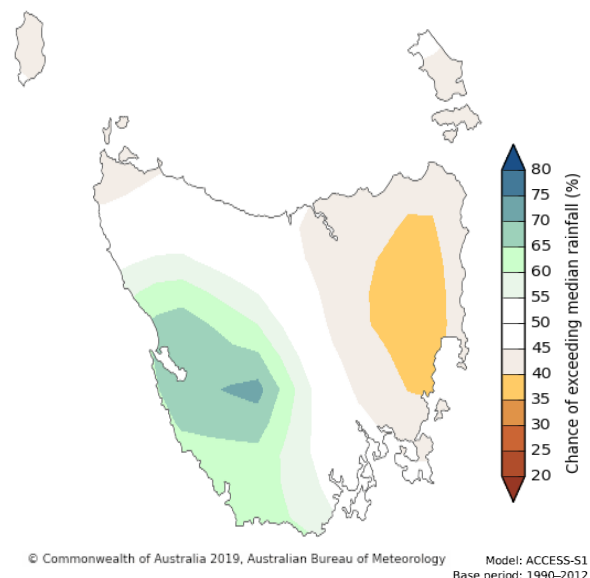
© Commonwealth of Australia 2019, Australian Bureau of Meteorology ID code: AWAP

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

Three month forecast

The Bureau of Meteorology's three month climate outlook for September to November 2019, issued on 29 August 2019, shows that there is a higher probability of above median rainfall in the west of the state.

Chance of exceeding the median rainfall for September to November 2019



© Commonwealth of Australia 2019, Australian Bureau of Meteorology Model: ACCESS-S1 Base period: 1990-2012

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.