



TASMANIAN ENERGY SECURITY

Monitor and Assessor

Monthly Dashboard



April 2019 edition

Report addresses energy security status as at 1 April 2019

Status

Energy in storage is slightly 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.

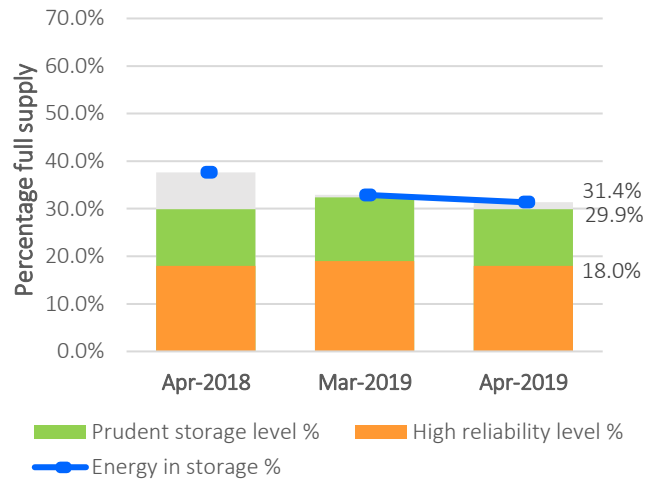
Energy security assessment:
 No additional monitoring activities required

Energy in storage

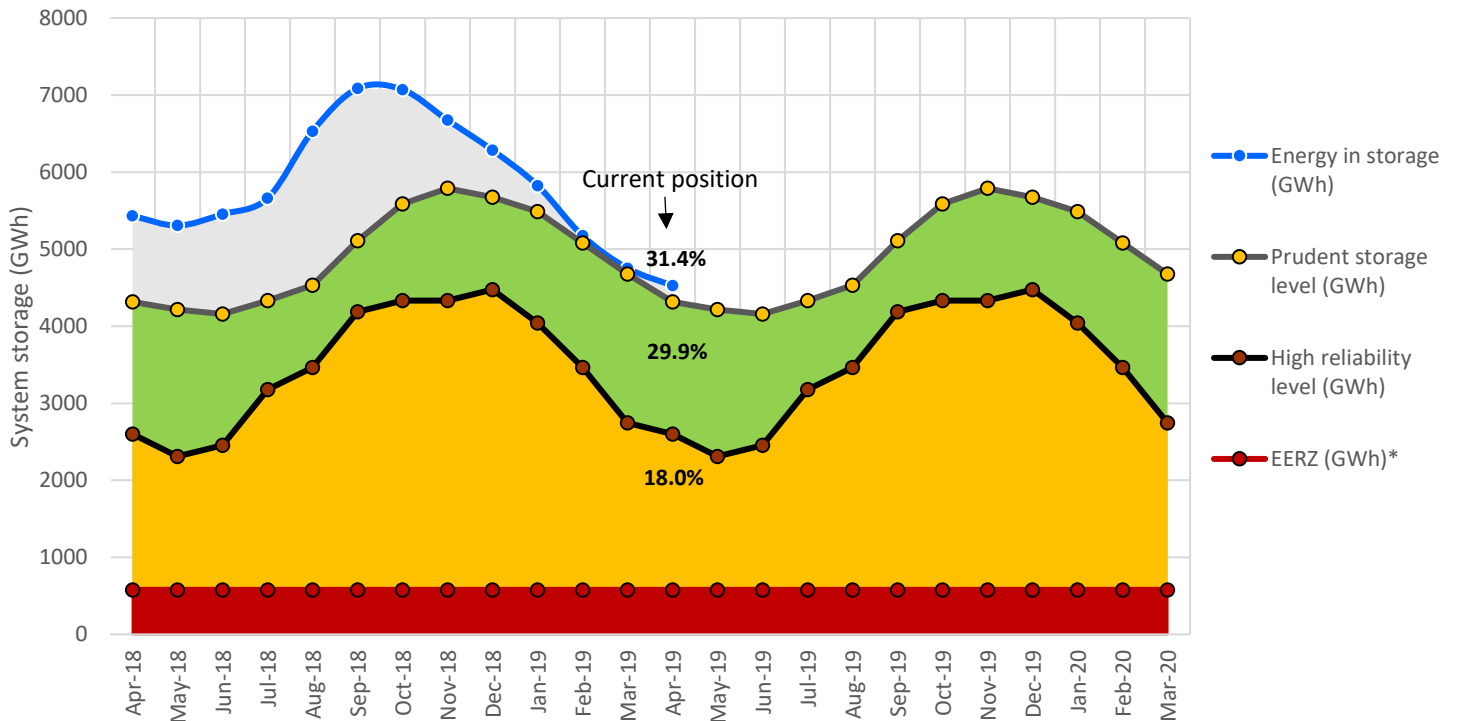
	System	PSL	HRL
Beginning of this month (GWh)	4529	4317	2599
Percentage full supply	31.4%	29.9%	18.0%
Total March inflows (GWh)	192		
Beginning of last month (GWh)	4753		
Change from last month (GWh)	-4.7%	↓	
Compared to April last year (GWh)	-17%	↓	

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

Energy in storage - status



Energy in storage - 24 month



[^]Average monthly demand is 900 GWh. Demand in summer months is generally below average. Demand in winter months is generally above average.

[#] Energy security risk response framework, Tasmanian Energy Security Taskforce Final Report, August 2017. (click for link)

*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 in 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).

March statistics

Tasmanian generation during March 2019

Tasmanian monthly demand 820.1 GWh

Renewable generation

Hydro generation 460.2 GWh

Wind generation 76.4 GWh

Tamar Valley Power Station

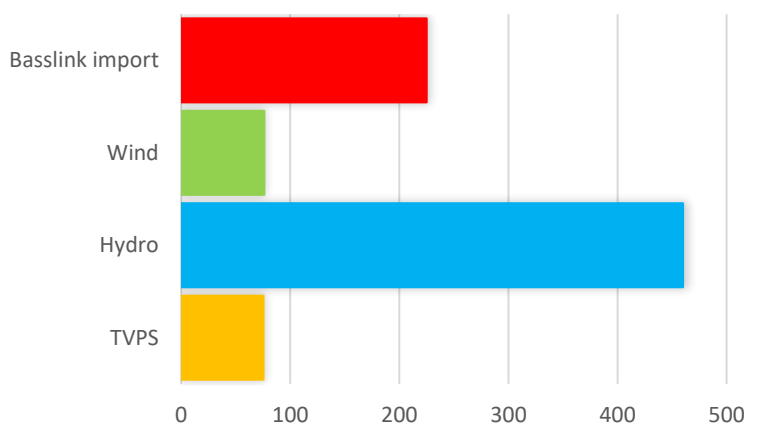
Operational
TVPS generation 75.5 GWh

Basslink interconnector

Operational
Basslink import 225.1 GWh

Basslink export 17.1 GWh

Monthly generation mix (GWh)

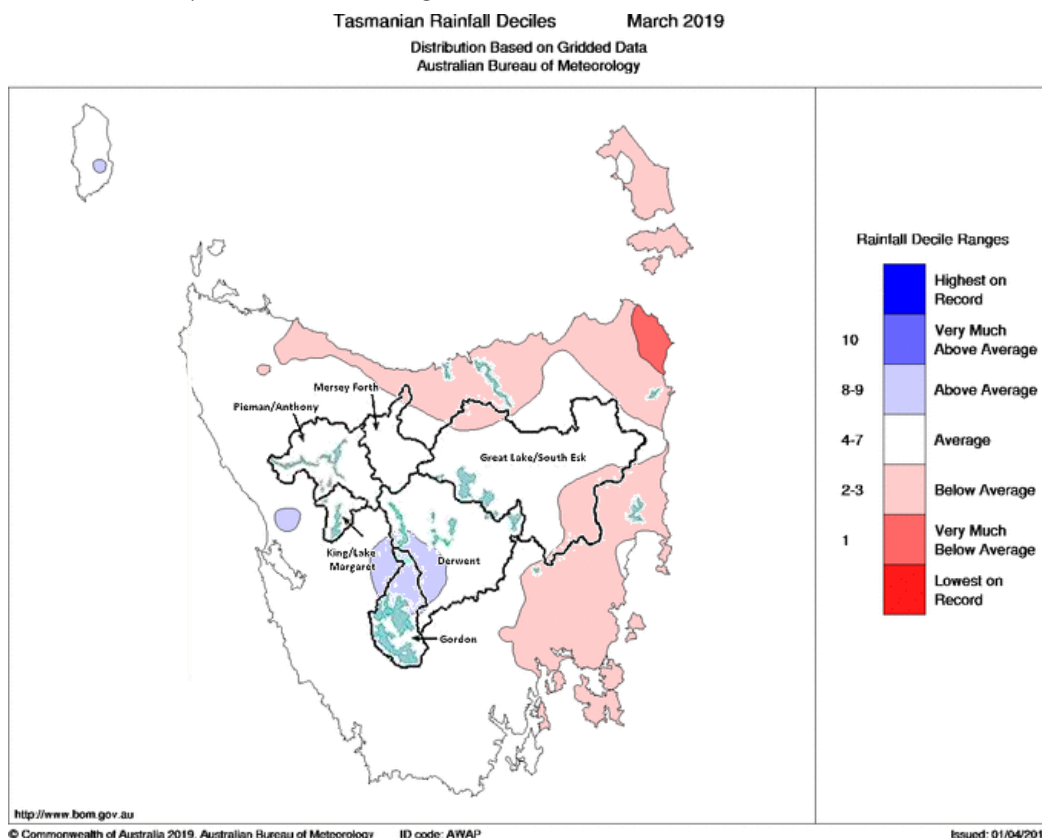


Hydro generation provided over half of all energy required to meet Tasmanian demand during March. This was supplemented by Basslink, wind and TVPS.

Energy security outlook

Rainfall in Tasmania - March

The Bureau of Meteorology's monthly climate summary notes that March rainfall was close to average in most areas, but below average in the north and east of the State. Tasmania's total rainfall for the month was 22 per cent below average. The map below shows rainfall deciles for the month in relation to 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 April to June 2019, issued on 28 March 2019, shows no strong indication towards wetter or drier than average conditions over the coming three months.

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.