TASMANIAN ENERGY SECURITY Monitor and Assessor

Monthly Dashboard

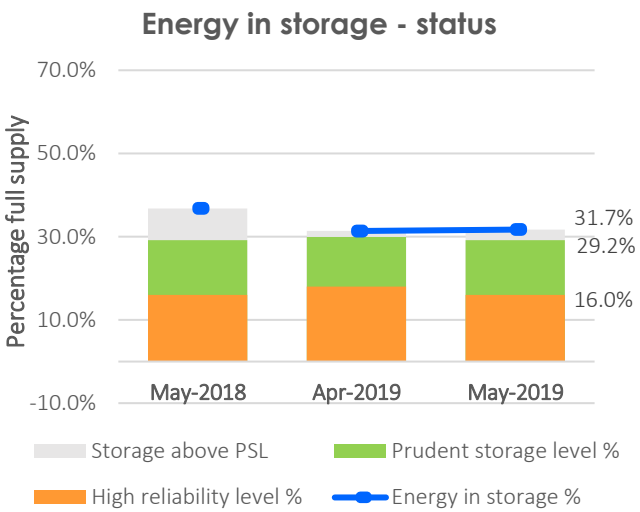
May 2019 edition

Report addresses energy security status as at 6 May 2019

Status

Energy in storage is above the Prudent Storage Level
Energy in storage is equivalent to 5.1 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.

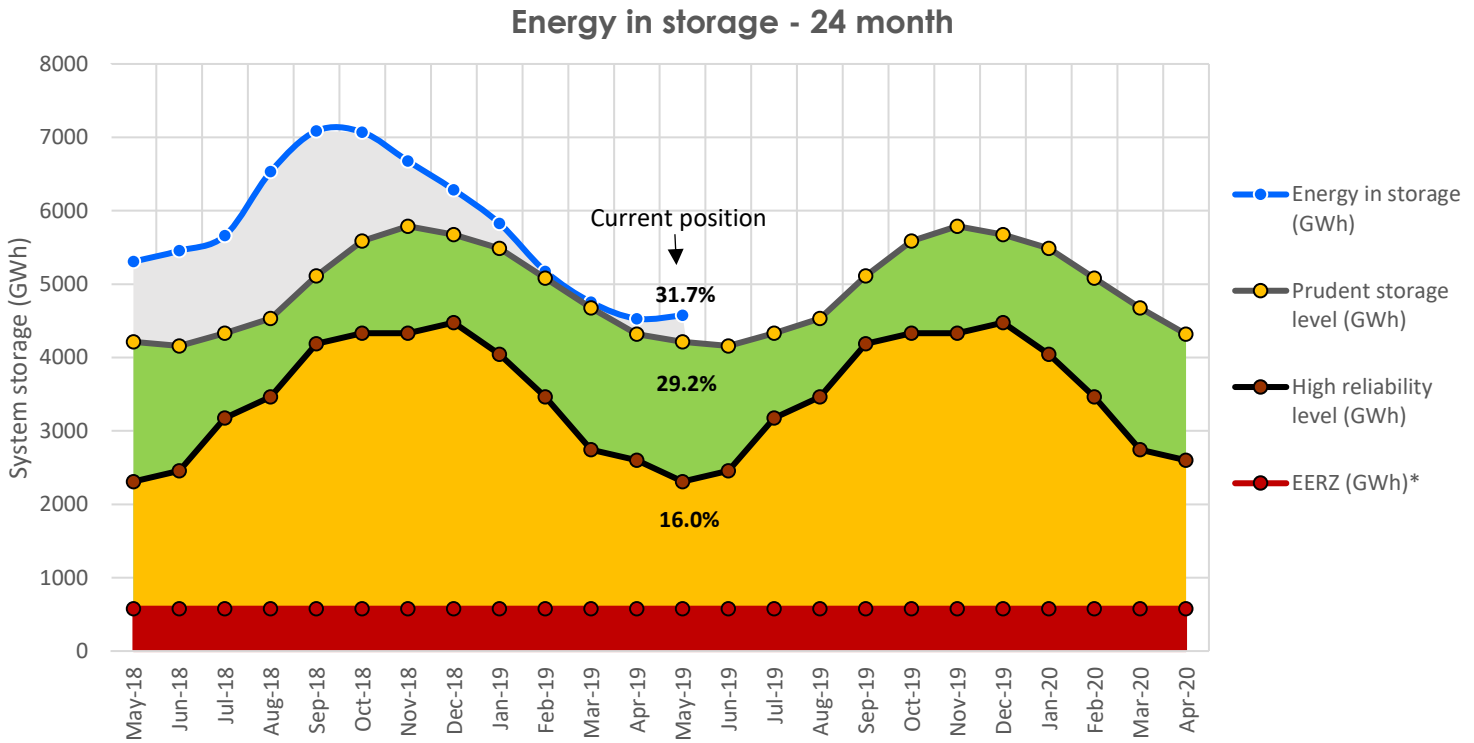
Energy security assessment:
no additional monitoring activities required



Energy in storage (EIS)

	System	PSL	HRL
As at 6 May 2019 (GWh)	4576	4216	2310
Percentage full supply	**31.7%**	29.2%	16.0%
Total April inflows~ (GWh)	590		
As at 1 April 2019 (GWh)	4529		
Change from last month (GWh)	1.0%	↑	
Compared to May last year (GWh)	-14%	↓	

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



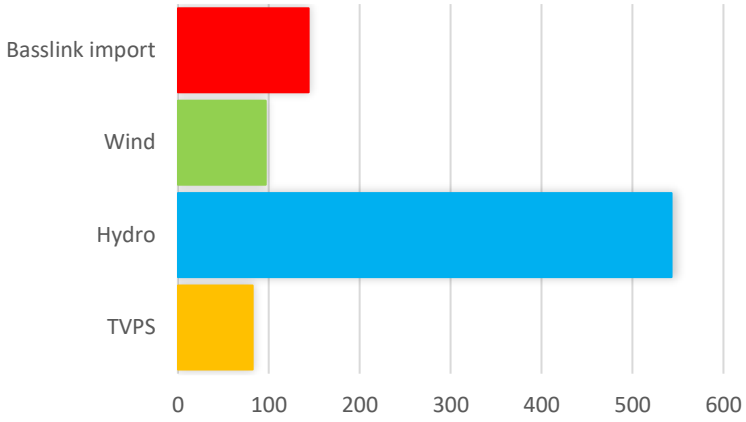
^Average monthly demand is around 900 GWh in autumn and spring months. This decreases to around 800 GWh in summer months and increases to around 1 000 GWh in winter months.
~Inflows for the calendar month.
*System storage associated with Great Lake Environmental Extreme Risk Zone (EERZ).
HRL = High Reliability 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).

April statistics

Tasmanian generation during April 2019

Tasmanian monthly demand	833.3 GWh
Renewable generation	
Hydro generation	542.9 GWh
Wind generation	96.6 GWh
Tamar Valley Power Station	Operational
TVPS generation	82.2 GWh
Basslink interconnector	Operational
Basslink imports	143.8 GWh
Basslink exports	*32.3 GWh*

Monthly generation mix (GWh)

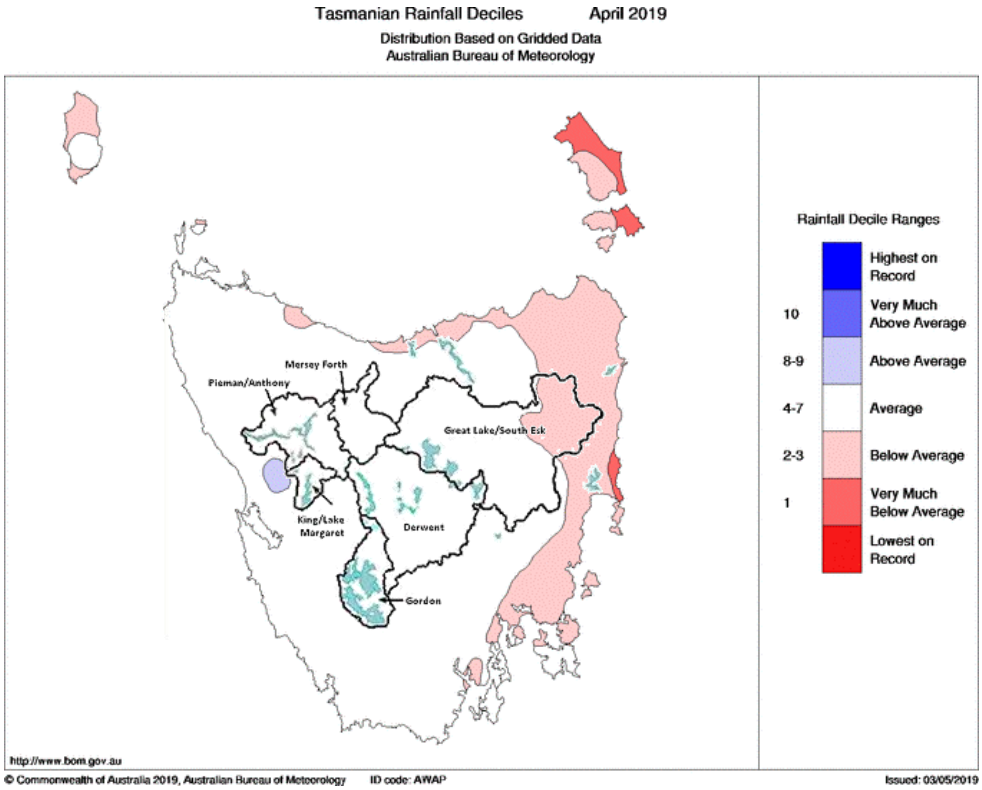


Hydro generation provided almost two thirds of all energy required to meet Tasmanian demand during April. This was supplemented by Basslink, wind and TVPS.

Energy security outlook

Rainfall in Tasmania - April

The Bureau of Meteorology's monthly climate summary notes that April rainfall was close to average in most of the State, but below average near the north and east coasts and slightly above average in the southwest highlands. Tasmania's total rainfall for the month was around 14 per cent below average. The map below shows rainfall deciles for the month 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 May to July 2019, issued on 26 April 2019, shows that although May is likely to be drier than average in eastern Tasmania, overall there is no strong indication towards wetter or drier than average conditions over the coming three months.

Source: Bureau of Meteorology, Monthly Climate Outlook (link).