



# TASMANIAN ENERGY SECURITY Monitor and Assessor



## Monthly Dashboard

May 2021 edition

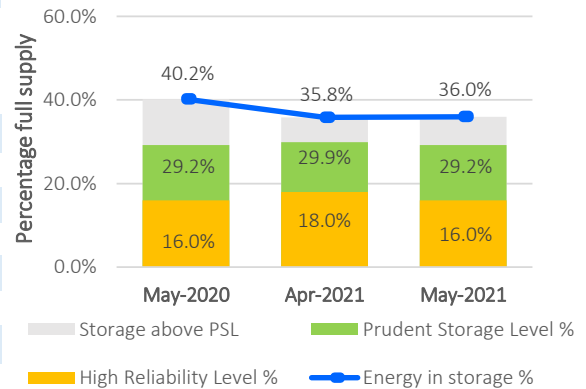
Report on energy in storage levels and energy security assessment for mainland Tasmania as at 3 May 2021

### Status

Energy in storage remains well above the Prudent Storage Level.  
 Energy in storage is equivalent to 5.4 months average seasonal 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 120 days in all its simulated inflow sequences.

Energy security assessment:  
 no additional monitoring activities required

### Energy in storage - status



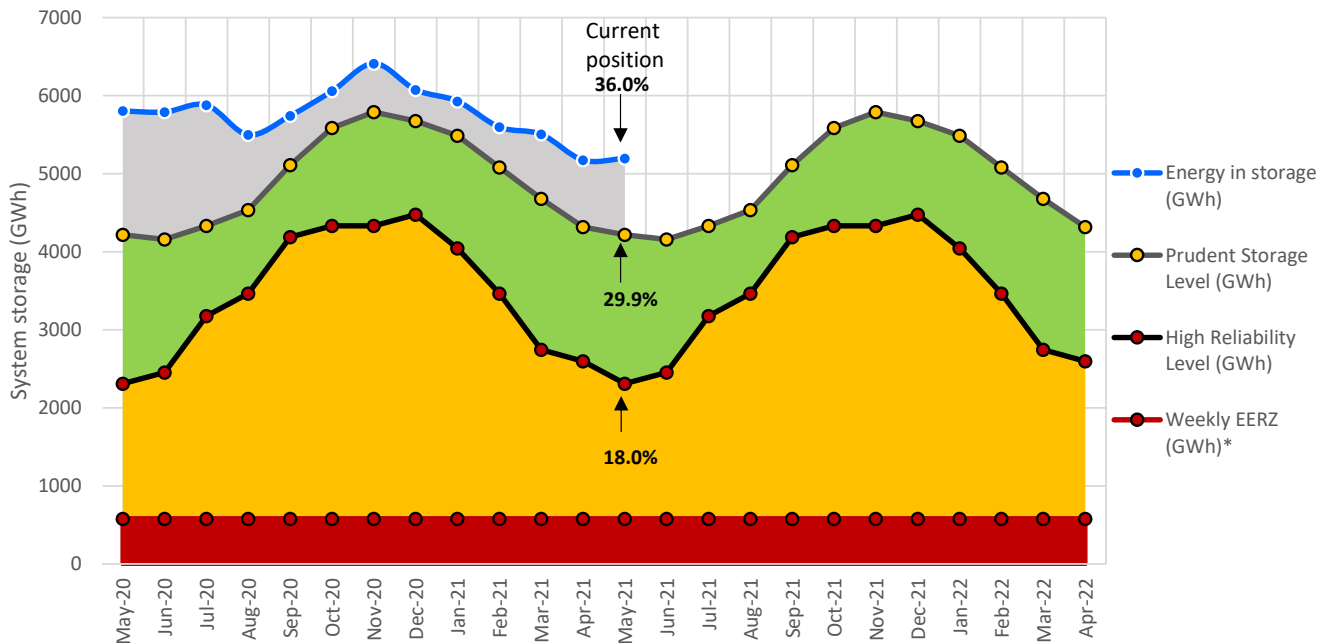
### Energy in storage (EIS)

	System	PSL	HRL
As at 3 May 2021 (GWh)	5196	4216	2310
Percentage full supply	36.0%	29.2%	16.0%
Total April inflows~ (GWh)	773		

As at 5 April 2021 (GWh)	5174
Change from last month (GWh)	0.4%
Compared to May last year (GWh)	-10.5%

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

### Energy in storage (mainland Tasmania) - May 2020 to May 2021



<sup>^</sup>Average seasonal demand for the energy in storage equivalent is approximately 962 GWh per month.

~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 result in a low likelihood of entering the HRL under normal operating conditions).

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

## April statistics

### Mainland Tasmanian generation during April 2021

Tasmanian monthly consumption 879.3 GWh

#### Renewable generation

Hydro generation 794.7 GWh

Wind generation 187.4 GWh

#### Gas

Operational

Gas generation 1.7 GWh

### Basslink flows during April 2021

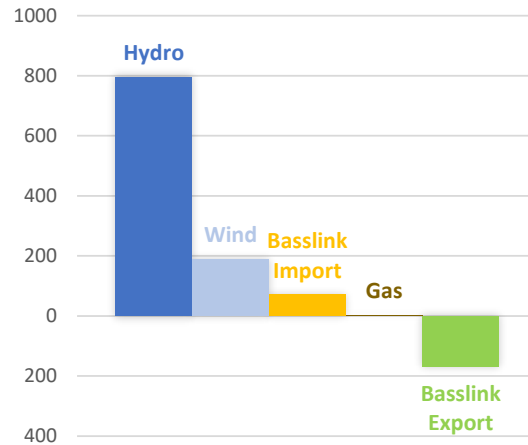
Basslink interconnector Operational

Basslink imports 71.0 GWh

Basslink exports 169.2 GWh

Basslink net exports 98.3 GWh

### Mainland Tasmanian generation mix



## Energy security outlook

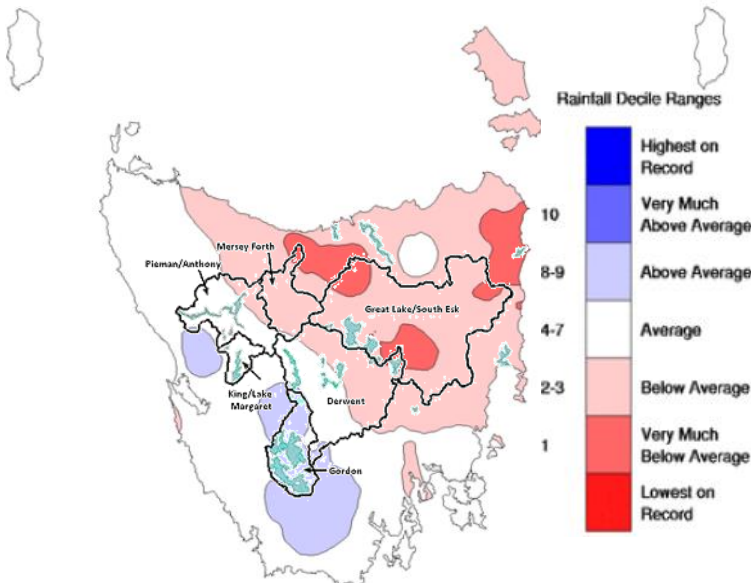
### Rainfall in Tasmania - April 2021

Monthly rainfall was below average across north-eastern Tasmania and close to or above average elsewhere. April rainfall was 18% below average for the State overall and the lowest since April 2018. Following a dry first week of April for much of the State, cold fronts brought rainfall across Tasmania during the middle of the month.

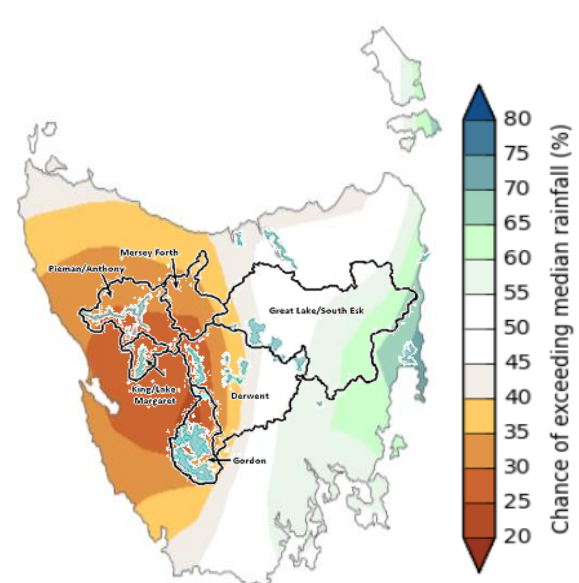
### Three month forecast

The Bureau of Meteorology's three month climate outlook for May 2021 to July 2021, issued on 29 April 2021, estimates it is more likely than not that rainfall will be at or above the median level in eastern Tasmania, and less likely than not that rainfall in western Tasmania will be above the median level. The catchments with the lowest probability of receiving above the median rainfall are Pieman and Gordon, where several larger hydro generation systems are located, with a probability of approximately 30 per cent each.

### Monthly Rainfall Deciles for Tasmania 01/04/2021 - 30/04/2021



### Likelihood of Exceeding the Median Rainfall May to July 2021



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

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.*