



# TASMANIAN ENERGY SECURITY

## Monitor and Assessor

### Monthly Dashboard



January 2020 edition

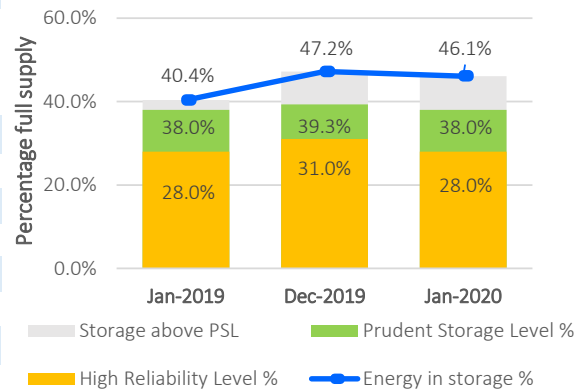
Report on energy in storage levels and energy security assessment for mainland Tasmania as at 6 January 2020.

#### Status

Energy in storage is well above the Prudent Storage Level.  
 Energy in storage is equivalent to 7.4 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 90 days in all of its simulated inflow sequences.

Energy security assessment:  
 no additional monitoring activities required

#### Energy in storage - status



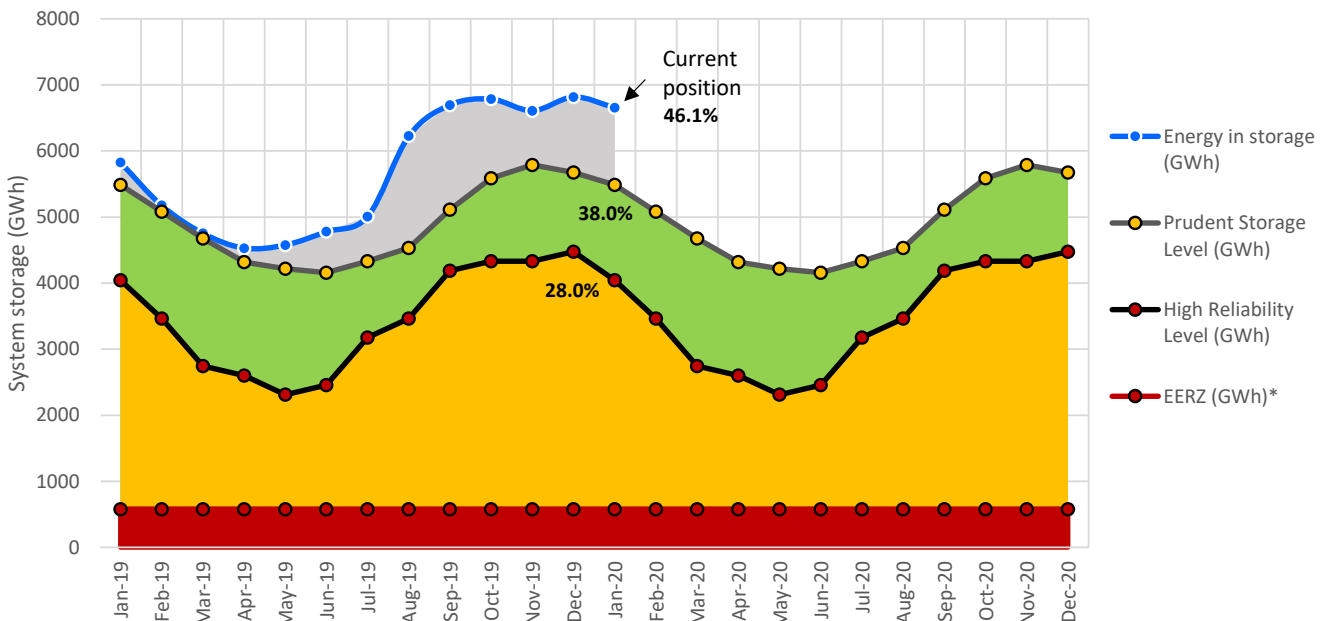
#### Energy in storage (EIS)

	System	PSL	HRL
As at 6 January 2020 (GWh)	6656	5486	4042
Percentage full supply	<b>46.1%</b>	38.0%	28.0%
Total December inflows~ (GWh)	672		

As at 2 December 2019 (GWh)	6817		
Change from last month (GWh)	2.4%	↓	
Compared to January last year (GWh)	14.2%	↑	

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

#### Energy in storage (mainland Tasmania) - January 2019 to January 2020



<sup>^</sup>Average seasonal demand for the energy in storage equivalent is approximately 903 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).

## December statistics

### Mainland Tasmanian generation during December 2019 Monthly generation mix (GWh)

Tasmanian monthly demand 851.3 GWh

#### Renewable generation

Hydro generation 745.5 GWh

Wind generation 106.3 GWh

#### Tamar Valley Power Station

Operational

Gas generation 8.4 GWh

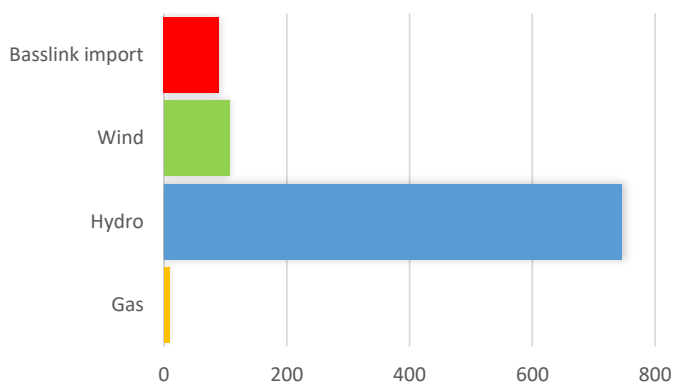
#### Basslink interconnector

Operational

Basslink imports 89.6 GWh

Basslink exports 98.6 GWh

Basslink net exports 9.0 GWh

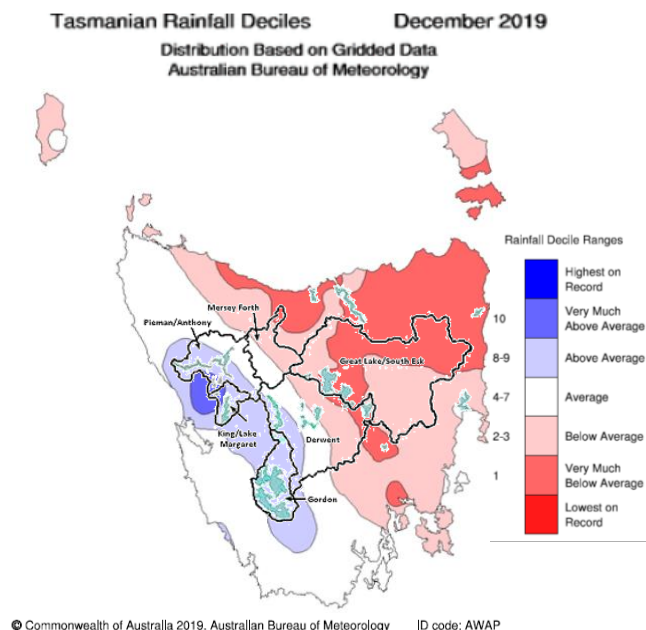


Hydro generation provided the majority of all electricity required to meet mainland Tasmanian demand during December 2019. This was supplemented mainly by Basslink and wind generation.

## Energy security outlook

### Rainfall in Tasmania - December

The Bureau of Meteorology's monthly climate summary states that western Tasmania was wetter than usual, but the north-east was much drier than usual. Mount Read in the west had its highest December daily rainfall on record, and totals were well above average through the western highlands. The north-east half of the State received very little rain, with some areas having less than 10 mm of rainfall for the whole month. Several sites reported their lowest total December rainfall since at least 1994; in some cases much longer, or even their driest December on record.

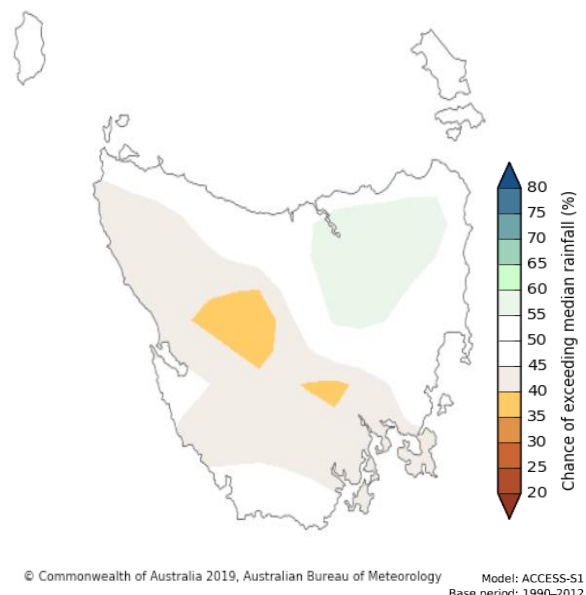


Source: Bureau of Meteorology, Monthly Climate Summary for Tasmania (link).

### Three month forecast

The Bureau of Meteorology's three month climate outlook for January 2020 to March 2020, issued on 2 January 2020, shows that the Bureau estimates the probability of exceeding median rainfall for the period is greatest in the north-east of the state. For the west and north-west of the state, there is a less than 50 per cent probability of exceeding the median rainfall for the period.

#### Chance of exceeding the median rainfall for January to March 2020



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.*