



# TASMANIAN ENERGY SECURITY

## Monitor and Assessor

### Monthly Dashboard



December 2019 edition

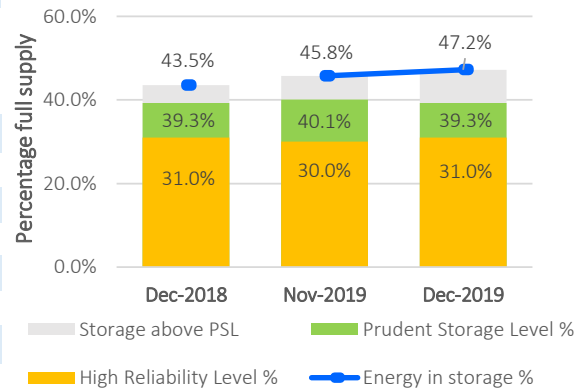
Report on energy in storage levels and energy security assessment for mainland Tasmania as at 2 December 2019

#### Status

Energy in storage is well above the Prudent Storage Level.  
 Energy in storage is equivalent to 7.8 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



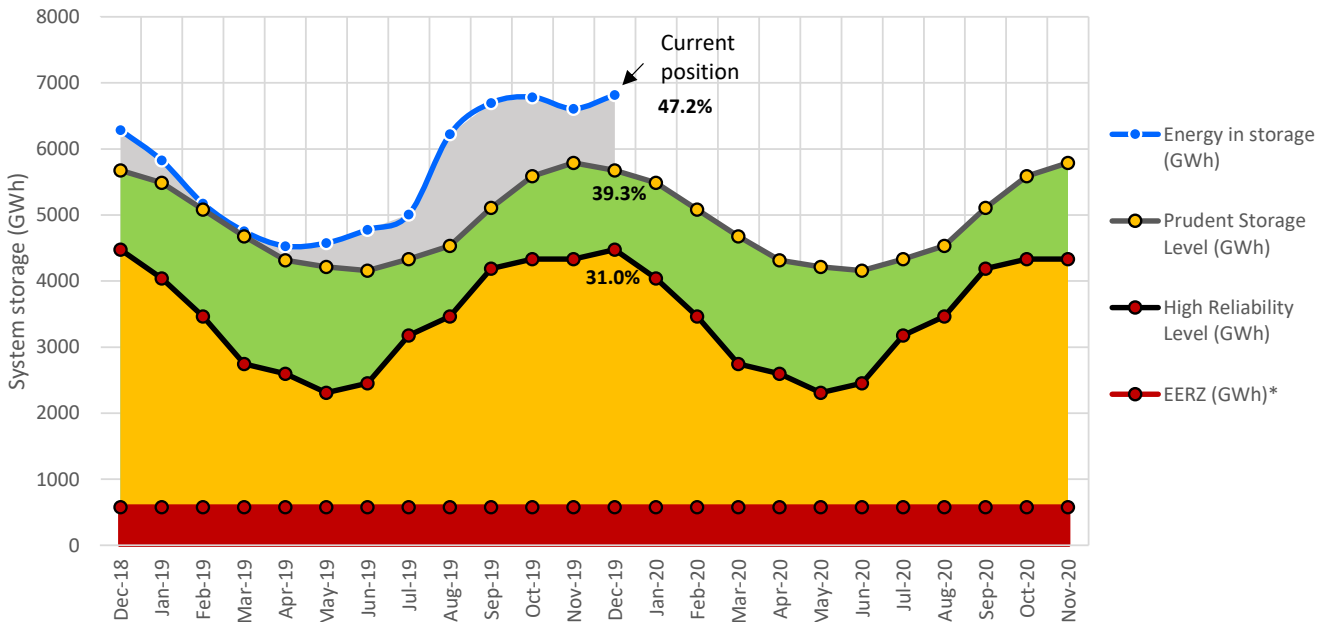
#### Energy in storage (EIS)

	System	PSL	HRL
As at 2 December 2019 (GWh)	6817	5674	4475
Percentage full supply	47.2%	39.3%	31.0%
Total November inflows~ (GWh)	927		

As at 4 November 2019 (GWh)	6609
Change from last month (GWh)	3.1%
Compared to December last year	8.5%

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

#### Energy in storage (mainland Tasmania) - December 2018 to December 2019



<sup>^</sup>Average seasonal demand for the energy in storage equivalent is approximately 861 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).

## November statistics

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

Tasmanian monthly demand 865.3 GWh

#### Renewable generation

Hydro generation 754.8 GWh

Wind generation 124.0 GWh

#### Tamar Valley Power Station

Operational

TVPS generation 9.6 GWh

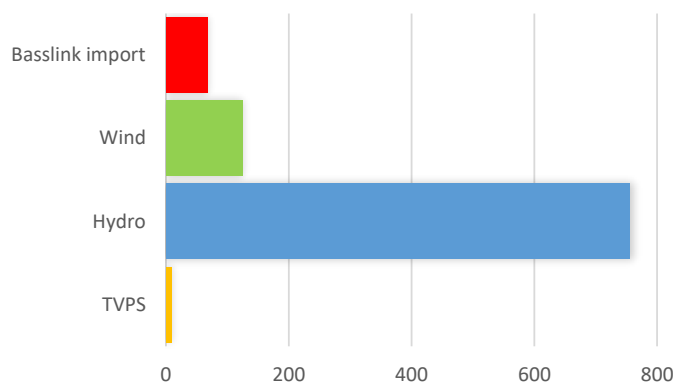
#### Basslink interconnector

Operational

Basslink imports 68.3 GWh

Basslink exports 91.3 GWh

Basslink net exports 23.0 GWh

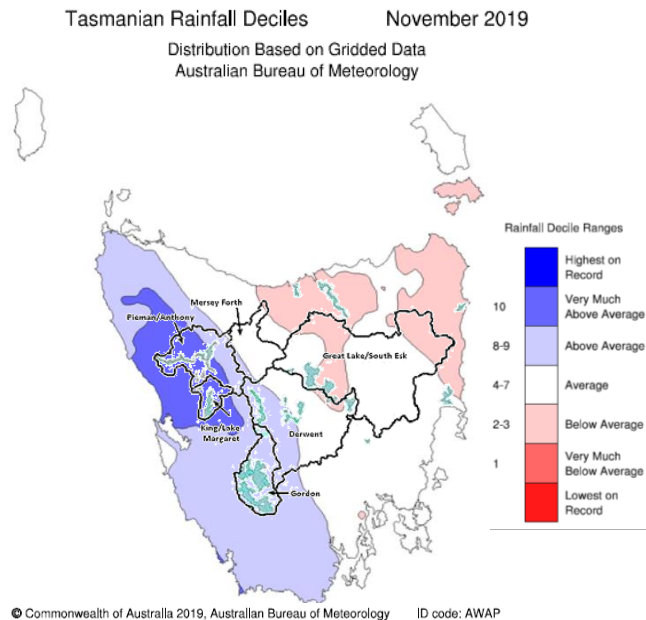


Hydro generation provided the majority of all electricity required to meet mainland Tasmanian demand during November 2019. This was supplemented mainly by Basslink and wind.

## Energy security outlook

### Rainfall in Tasmania - November

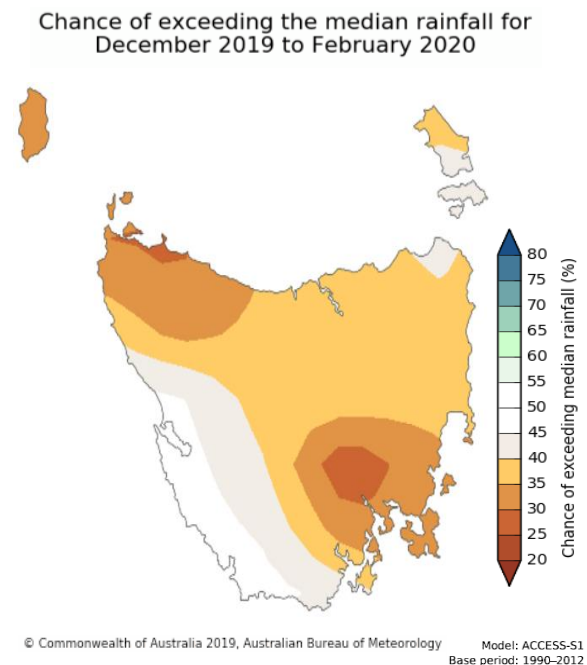
The Bureau of Meteorology's monthly climate summary notes that Tasmania's total rainfall was about 21% above the November average. Rainfall for the year so far has been below average for most of Tasmania and well below average in the east, but close to average in the western highlands. Some sites in the west reported their highest total November rainfall for many years. Monthly rainfall totals near the East Coast and in the central Midlands were well below average. The map below shows rainfall deciles for the month, including 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 December 2019 to February 2020, issued on 28 November 2019, shows that the Bureau estimates that there is a probability of less than 50 per cent of above median rainfall across the north and east of the state and a probability of around 50 per cent of above median rainfall for the south-west of the state.



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.*