



# TASMANIAN ENERGY SECURITY

## Monitor and Assessor

### Monthly Dashboard



#### February 2020 edition

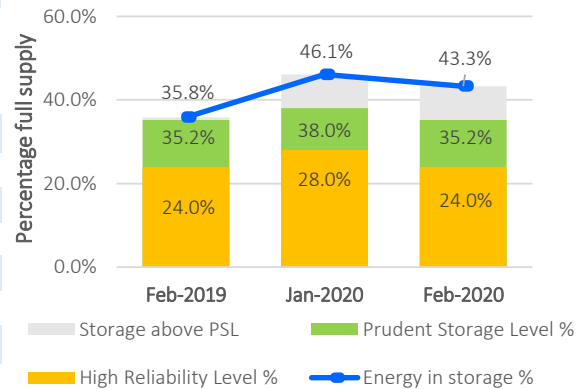
Report on energy in storage levels and energy security assessment for mainland Tasmania as at 3 February 2020

#### Status

Energy in storage remains well above the Prudent Storage Level. Energy in storage is equivalent to 6.8 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 its simulated inflow sequences.

Energy security assessment:  
no additional monitoring activities required

#### Energy in storage - status



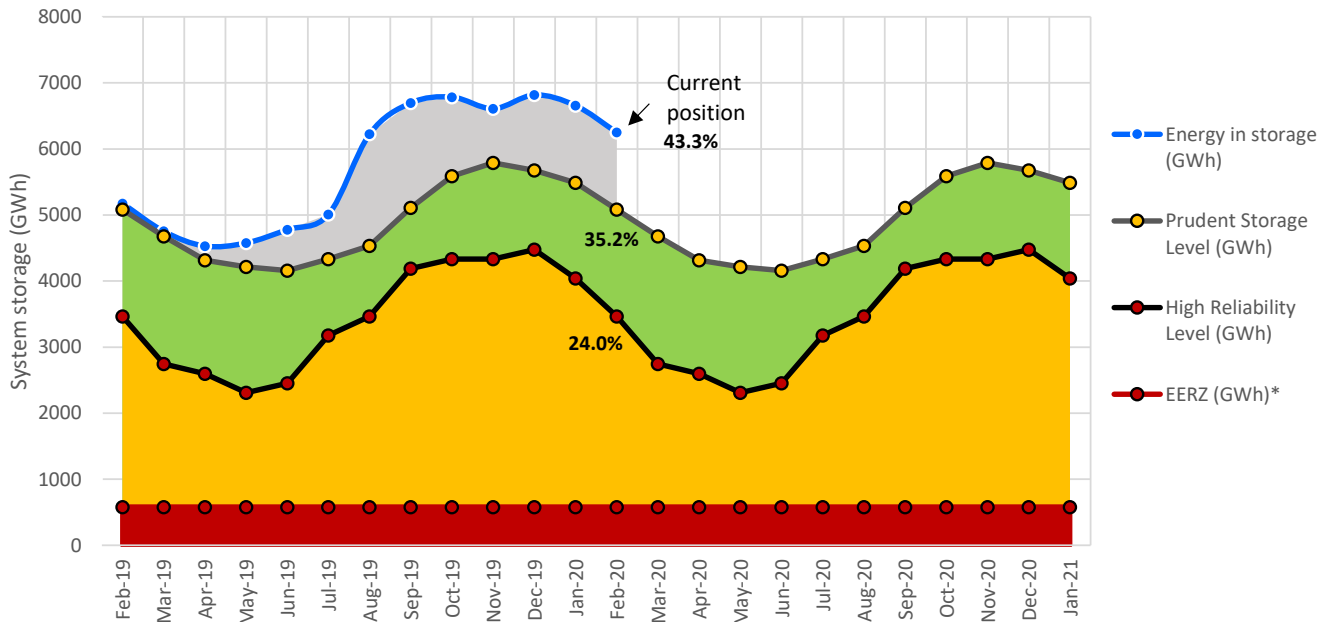
#### Energy in storage (EIS)

	System	PSL	HRL
As at 3 February 2020 (GWh)	6249	5082	3465
Percentage full supply	<b>43.3%</b>	35.2%	24.0%
Total January inflows~ (GWh)	118		

As at 6 January 2020 (GWh)	6656		
Change from last month (GWh)	6.1%	↓	
Compared to February last year	20.8%	↑	

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

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



<sup>^</sup>Average seasonal demand for the energy in storage equivalent is approximately 925 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).

## January statistics

### Mainland Tasmanian generation during January 2020

Tasmanian monthly demand 773.0 GWh

### Renewable generation

Hydro generation 612.1 GWh

Wind generation 95.2 GWh

### Gas

Gas generation Operational 4.7 GWh

### Basslink interconnector

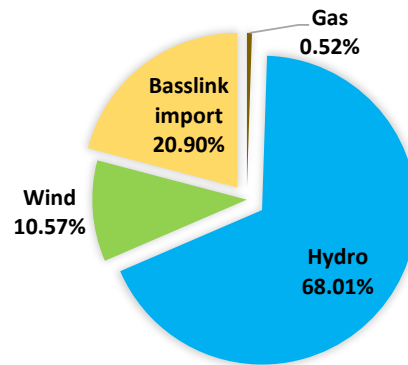
Basslink imports Operational 188.2 GWh

Basslink exports 61.0 GWh

Basslink net imports 127.2 GWh

Hydro generation provided the majority of all electricity required to meet mainland Tasmanian demand during January 2020. This was supplemented mainly by Basslink imports and wind generation.

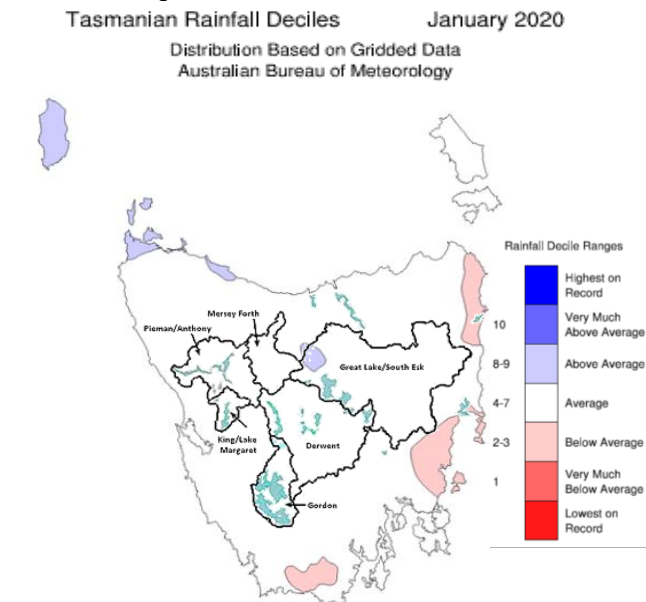
### Monthly consumption mix



## Energy security outlook

### Rainfall in Tasmania - January

There was little rain in most areas during the first three weeks of the month, apart from the west where a cold front brought moderate falls around January 11, and localised moderate falls from thunderstorms on January 15 and 16. A series of cold fronts and troughs brought moderate falls to the west and northwest from January 22 to 24, with showers continuing in the west. Rainfall totals were above average in the far northwest and on King Island, but below average near the East Coast and in the far south. Tasmania's total rainfall for the month was about 7% below average.

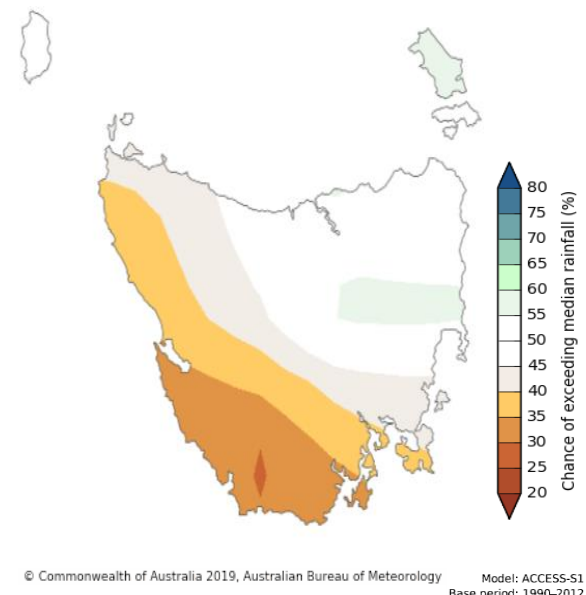


Source: Bureau of Meteorology, Monthly Climate Summary for Tasmania (link).

### Three month forecast

The Bureau of Meteorology's three month climate outlook for February 2020 to April 2020, issued on 30 January 2020, shows that the Bureau estimates that there is a probability of less than 50 per cent of above median rainfall across most of the west and south of the state. By contrast, the Bureau estimates there is an equal likelihood of rainfall being above or below the median for the majority of the north-east of the state.

### Chance of exceeding the median rainfall for February to April 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.*