



TASMANIAN ENERGY SECURITY

Monthly Dashboard



February 2018 edition

Report addresses energy security status as of January 2018

Energy in storage

Energy in storage as at end of January: **40.4%**

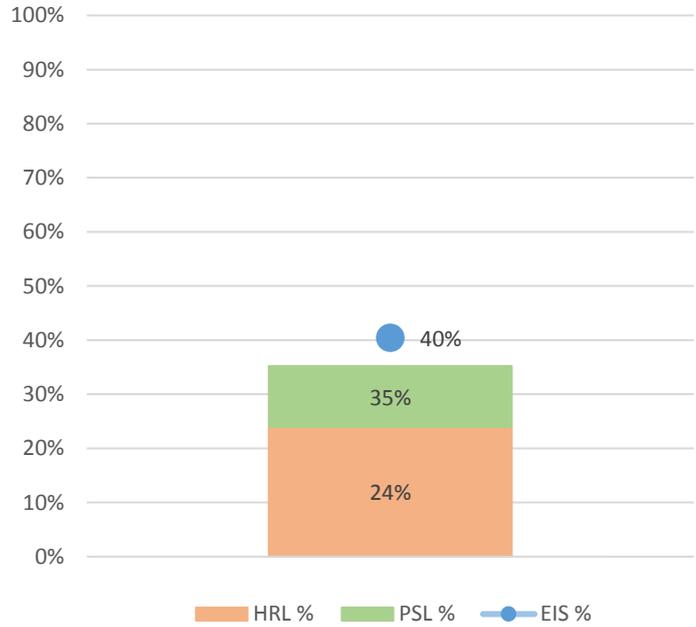
Energy in storage equivalent to 6.5 months average demand*

Energy in storage is above Prudent Storage Level

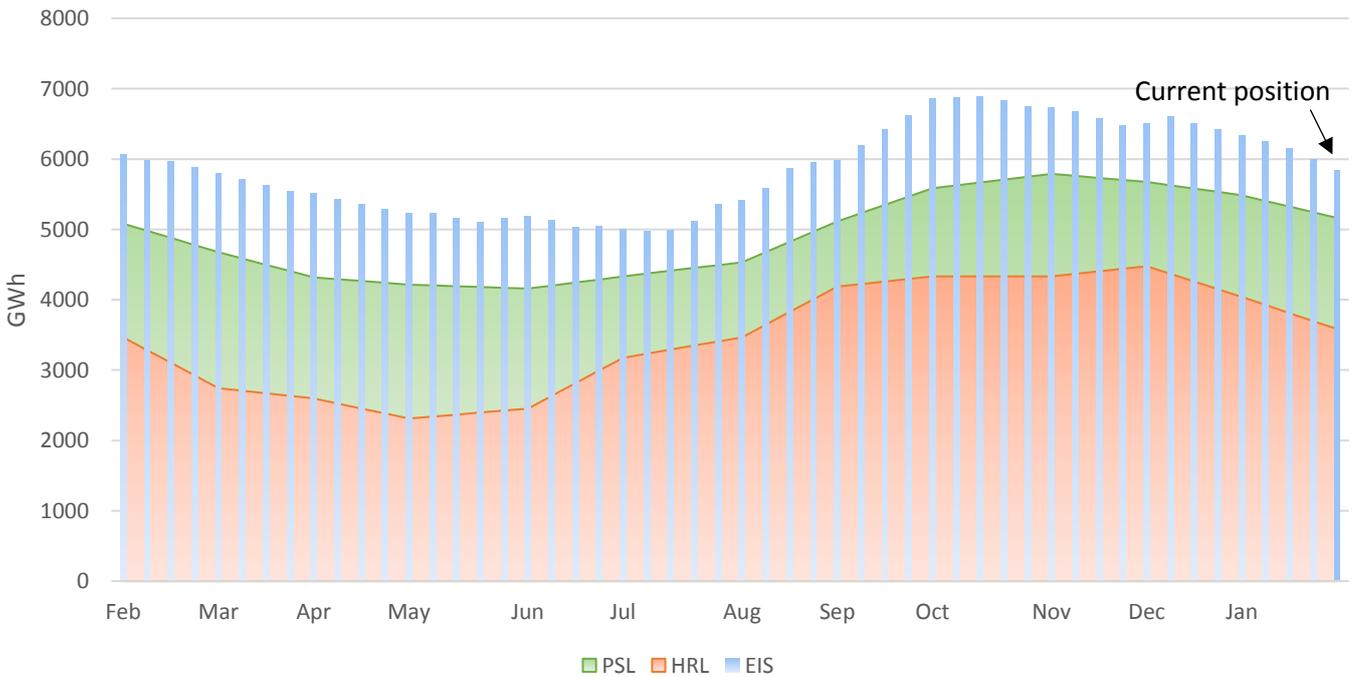
Commercial operation of Hydro Tasmania generation

*Average monthly demand is 900 GWh. Demand in summer months is generally below average. Demand in winter months is generally above average.

Energy in storage - January



Energy in storage - 12 monthly trend



HRL = High Reliability Level (reserve energy supply threshold, sufficient to supply Tasmanian demand for six months under extreme operating conditions).

PSL = Prudent Storage Level (additional storage to reduce the likelihood of entering the HRL under normal operating conditions).

EIS = Energy In Storage (relates to the volume of water in Hydro Tasmania's dams).

Energy security forecast

Based on information provided by Hydro Tasmania, the Monitor and Assessor estimates that it is highly probable Tasmanian hydro storages will remain above the High Reliability Level over the next 90 days, assuming average conditions.

Hydro Tasmania reports that storages remain above the High Reliability Level over the next 90 days in all of its simulated inflow sequences.

Basslink interconnector

Basslink interconnector status: Operational

Basslink import during January: 160.2 GWh

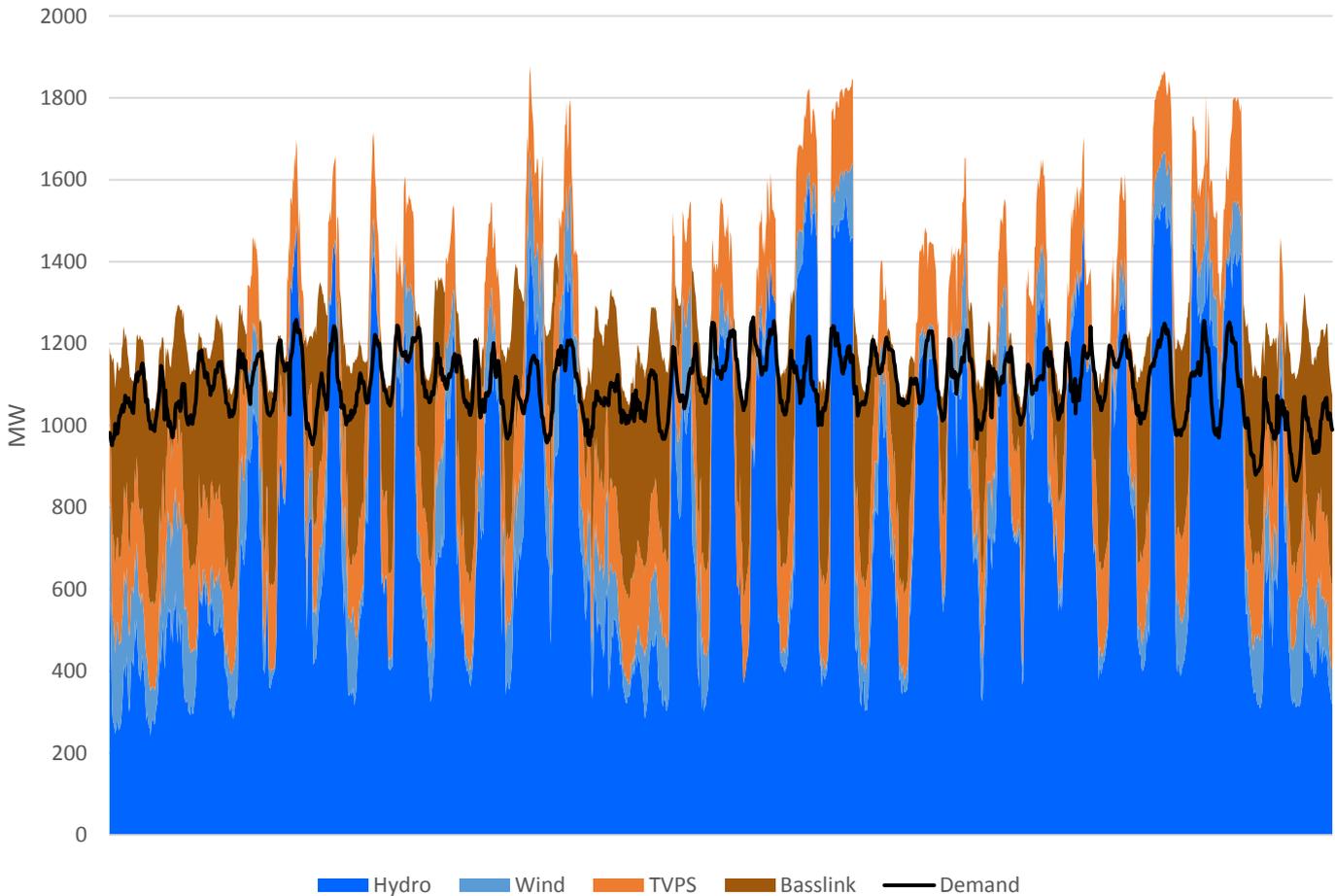
Tamar Valley Power Station

Tamar Valley Power Station (TVPS) status: Operational

TVPS generation during January: 152.5 GWh

Monthly generation mix

Total generation mix - January



Hydro generation, supplemented by wind, provided the majority of energy required to meet Tasmanian demand during January. Basslink and TVPS provided additional supply as required throughout the month, similar to the generation pattern seen since the end of October.

Note: On this chart, any generation above the black line (illustrating Tasmanian demand) denotes energy being exported via Basslink.

Key statistics - January

Average energy in storage 6113.1 GWh

Previous month 6508.6 GWh

Monthly change 395.6 GWh ↓

Total inflow to Hydro Tasmania storages 13.0 GWh

Tasmanian demand 904.5 GWh

On island generation

Hydro generation 585.3 GWh

Wind generation 78.6 GWh

Gas generation (TVPS) 152.5 GWh

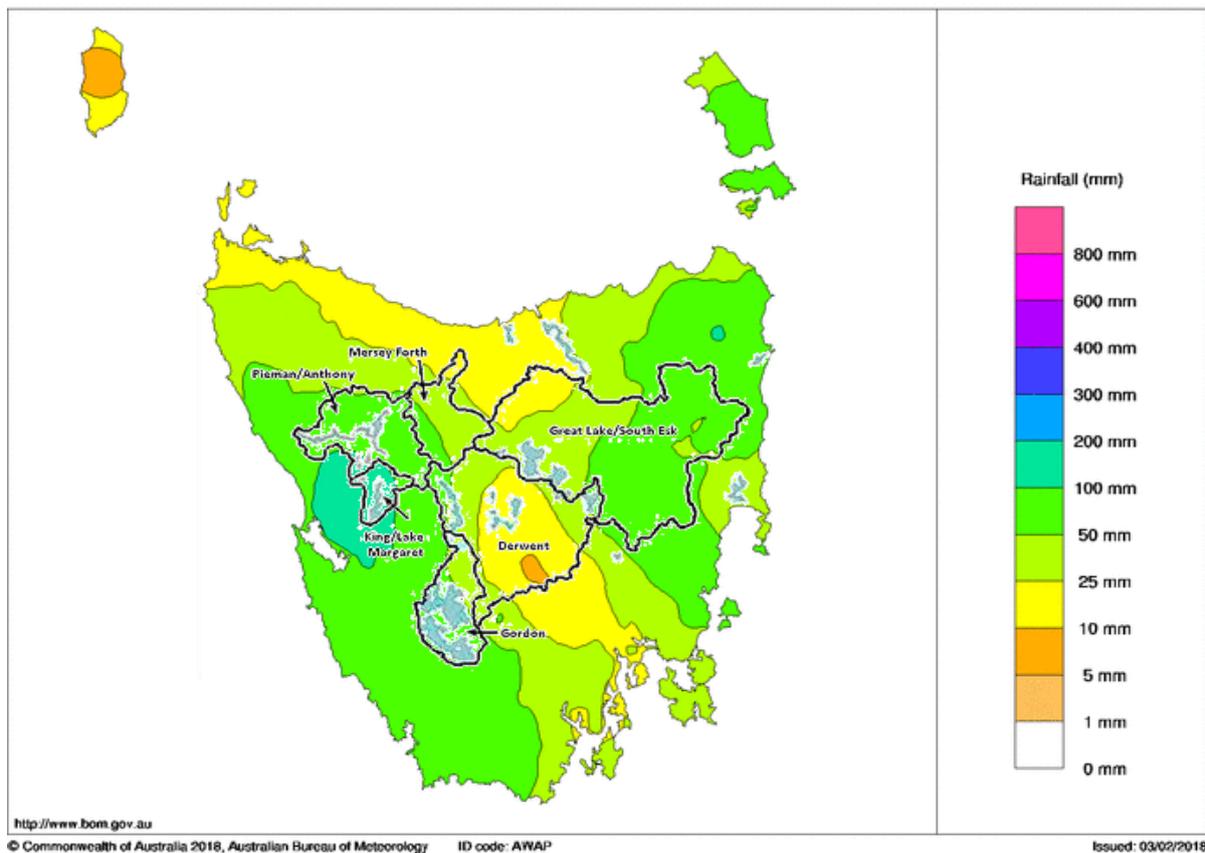
Basslink activity

Basslink import 160.2 GWh

Basslink export 72.0 GWh

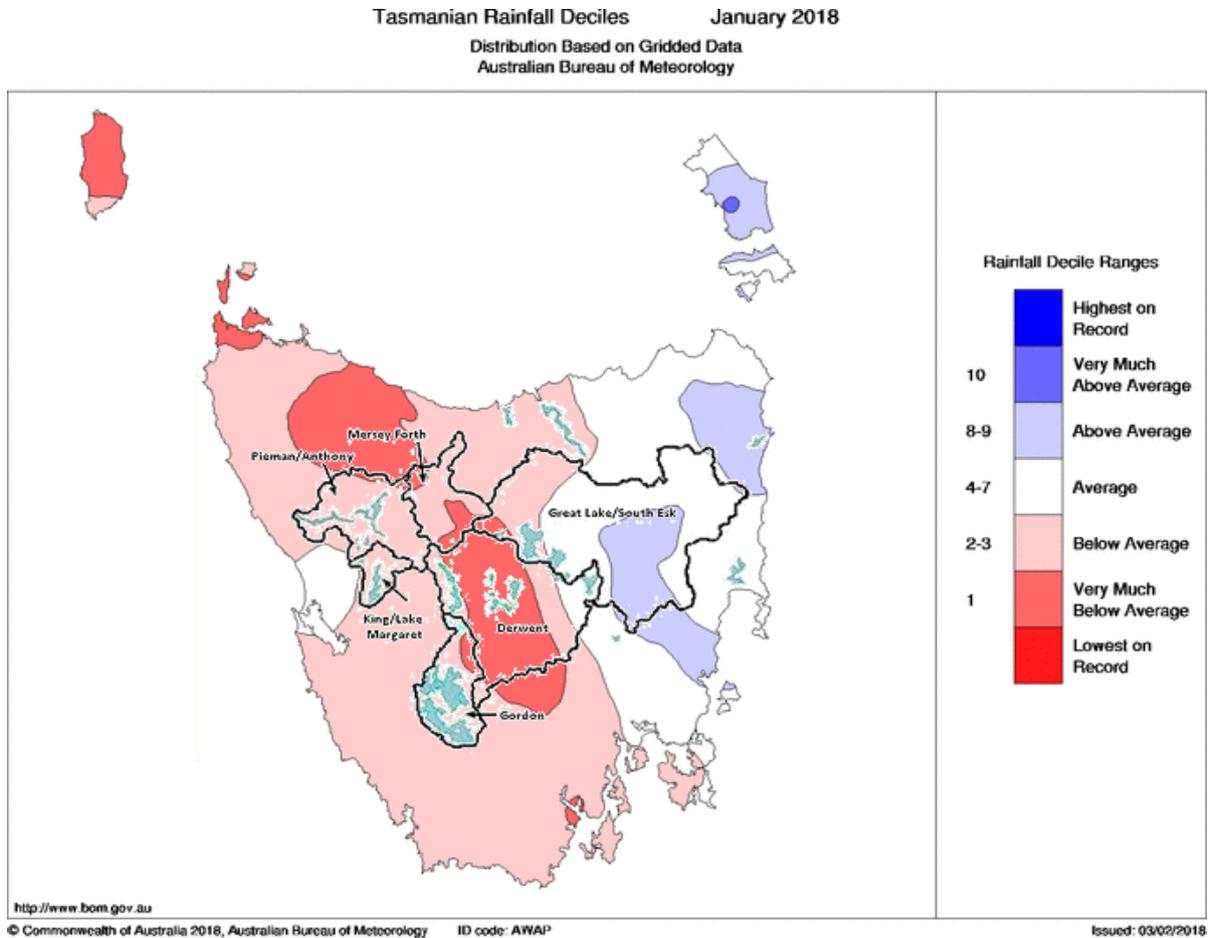
Rainfall in Tasmania - January

Tasmanian Rainfall totals (mm) January 2018
Australian Bureau of Meteorology



The Bureau of Meteorology reports that January was a relatively dry month for Tasmania. The State's total rainfall was 35% below the long-term January average, making it the driest January since 2010.

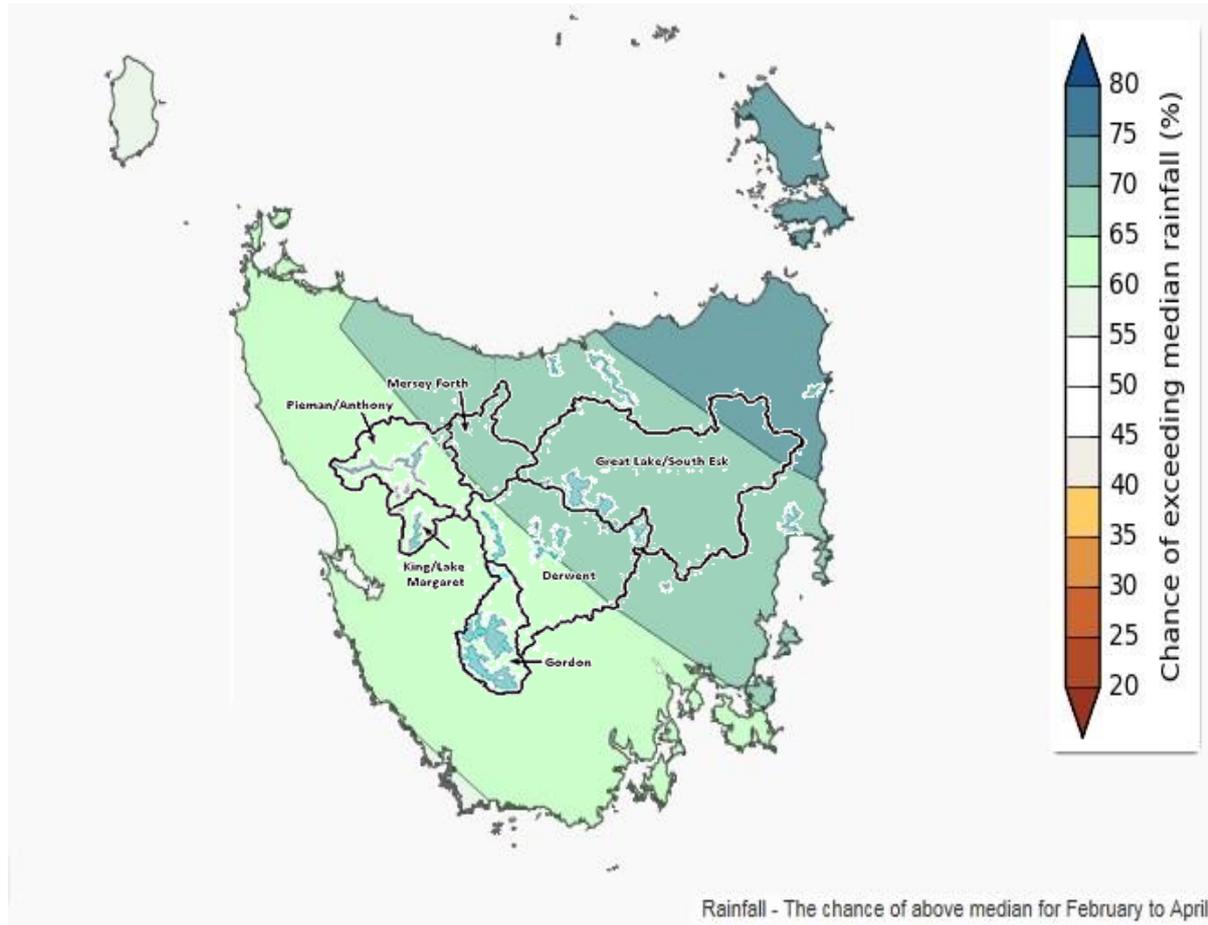
Rainfall in Tasmania - trends



Rainfall during January was below average in the western half of Tasmania, but equal to or above average in much of the Midlands and east. The majority of Hydro Tasmania's catchments experienced below average rainfall.

While serious to severe rainfall deficiencies across both 8-month and 10-month timescales continue in parts of the east and north-west, these conditions are easing. Furthermore, the areas that the Bureau of Meteorology has identified as experiencing rainfall deficiencies have little to no overlap with Hydro Tasmania's catchment areas.

Rainfall in Tasmania - three month forecast



Data relates to the chance of exceeding median rainfall over the next three months.

>50% chance of exceeding median = likely to receive above average monthly rainfall

<50% chance of exceeding median = likely to receive below average monthly rainfall

50% chance of exceeding median = likely to receive average monthly rainfall

The Tasmanian Economic Regulator (TER) publishes these monthly dashboards in its role as Tasmanian Energy Security Monitor and Assessor. The TER welcomes any comments or suggestions as to how it might develop this publication in future to make it more valuable to readers.

Please provide feedback by email with the topic line 'Monitor and Assessor Monthly Dashboard' to

office@economicregulator.tas.gov.au

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.