



TASMANIAN ENERGY SECURITY

Monthly Dashboard



March 2018 edition

Report addresses energy security status as of February 2018

Energy in storage

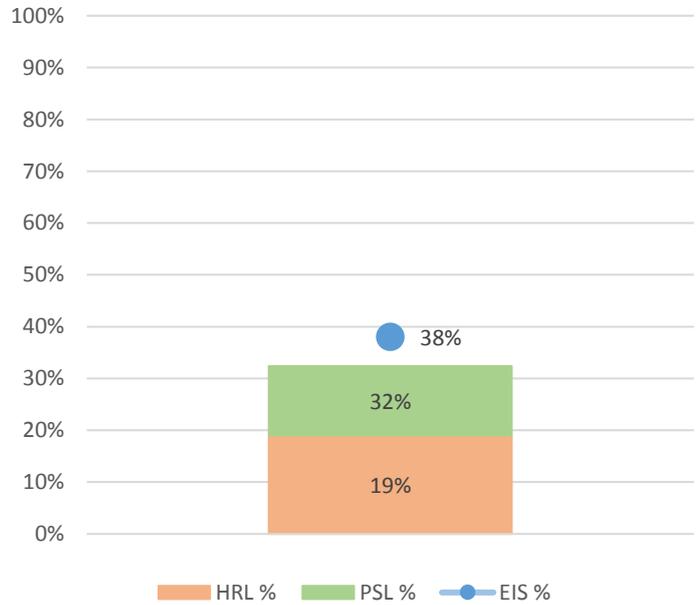
Energy in storage as at end of February: **38.0%**

Energy in storage equivalent to 6.1 months average demand*

Energy in storage is above Prudent Storage Level

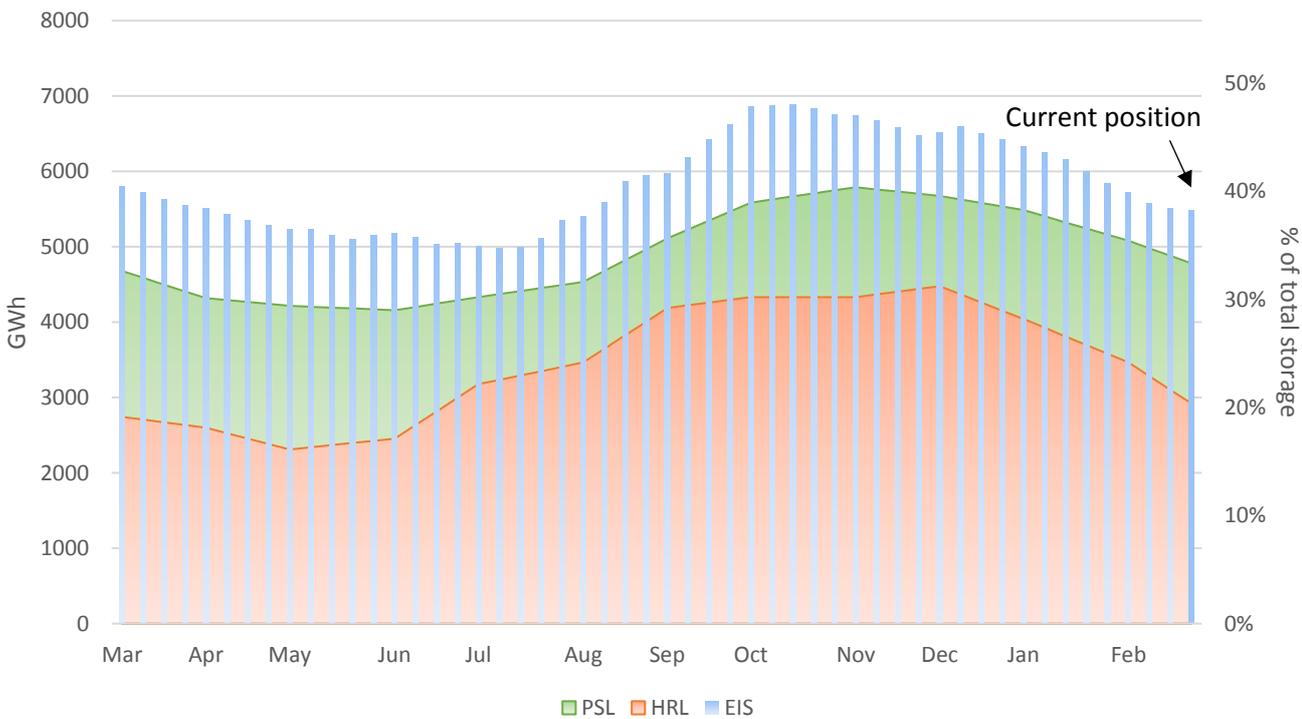
Commercial operation of Hydro Tasmania generation

Energy in storage - February



*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 - 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 February: 137.7 GWh

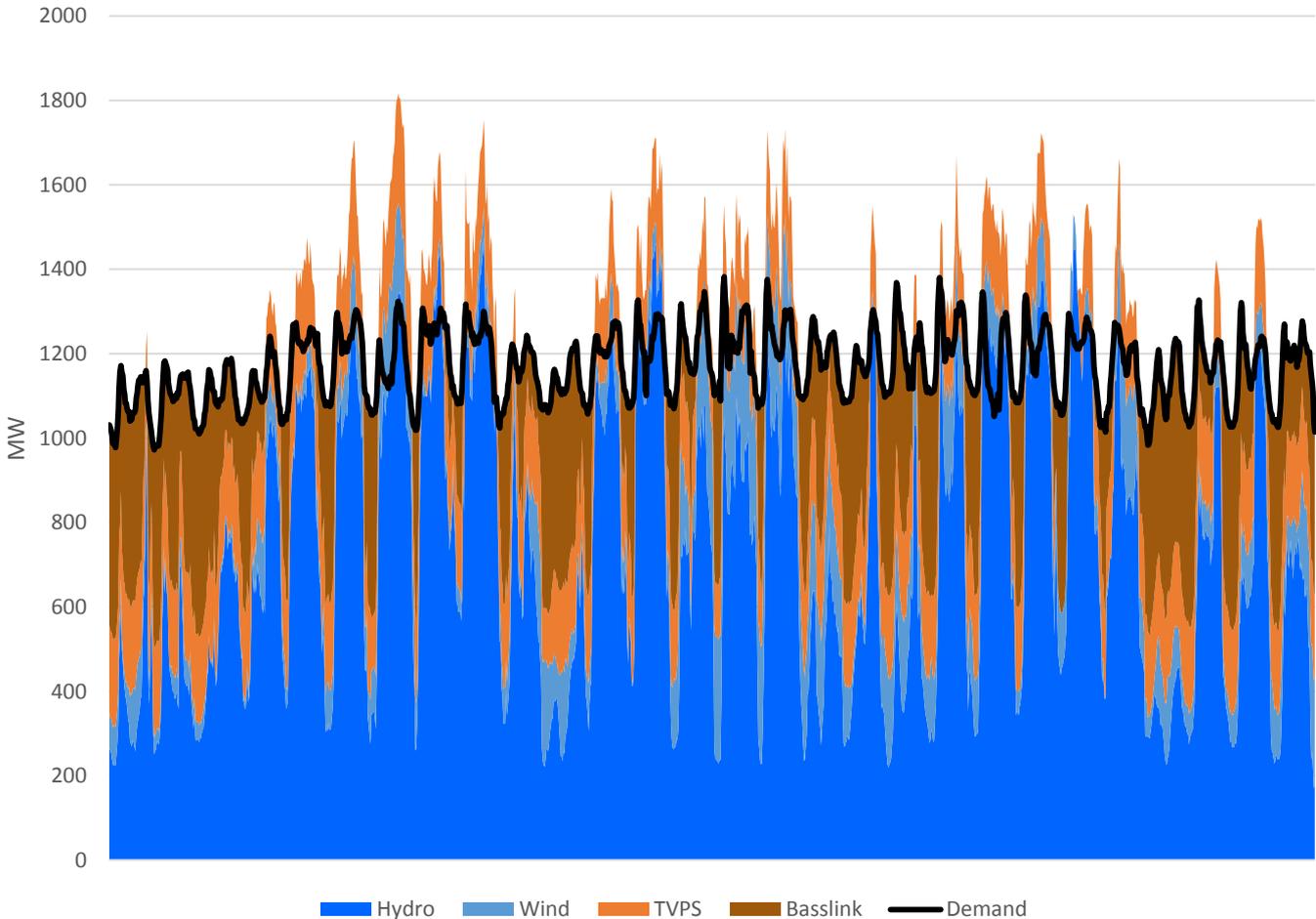
Tamar Valley Power Station

Tamar Valley Power Station (TVPS) status: Operational

TVPS generation during February: 133.5 GWh

Monthly generation mix

Total generation mix - February



Hydro generation, supplemented by wind, provided the majority of energy required to meet Tasmanian demand during February. 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 - February

Average energy in storage 5573.2 GWh

Previous month 6113.1 GWh

Monthly change 539.9 GWh ↓

Total inflow to Hydro Tasmania storages 166.0 GWh

Tasmanian demand 782.5 GWh

On island generation

Hydro generation 491.6 GWh

Wind generation 77.1 GWh

Gas generation (TVPS) 133.5 GWh

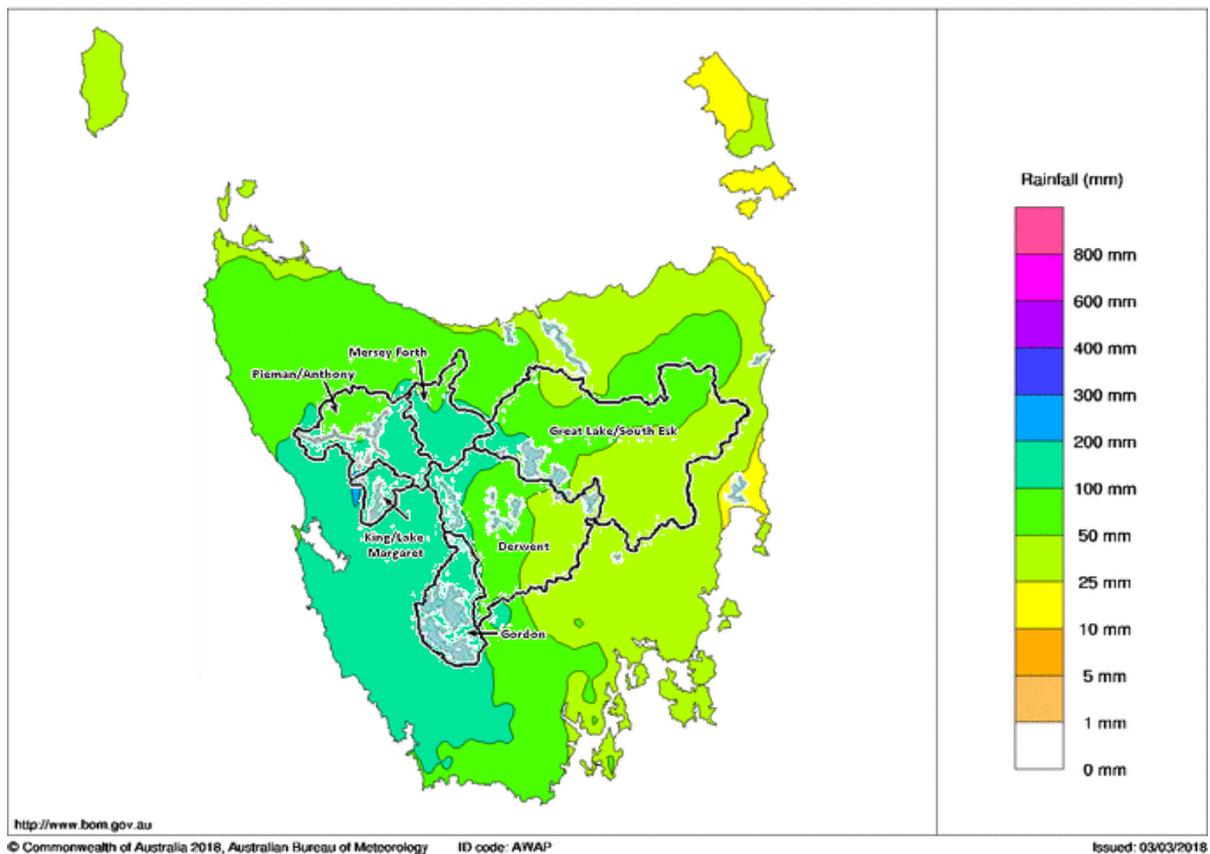
Basslink activity

Basslink import 137.7 GWh

Basslink export 57.4 GWh

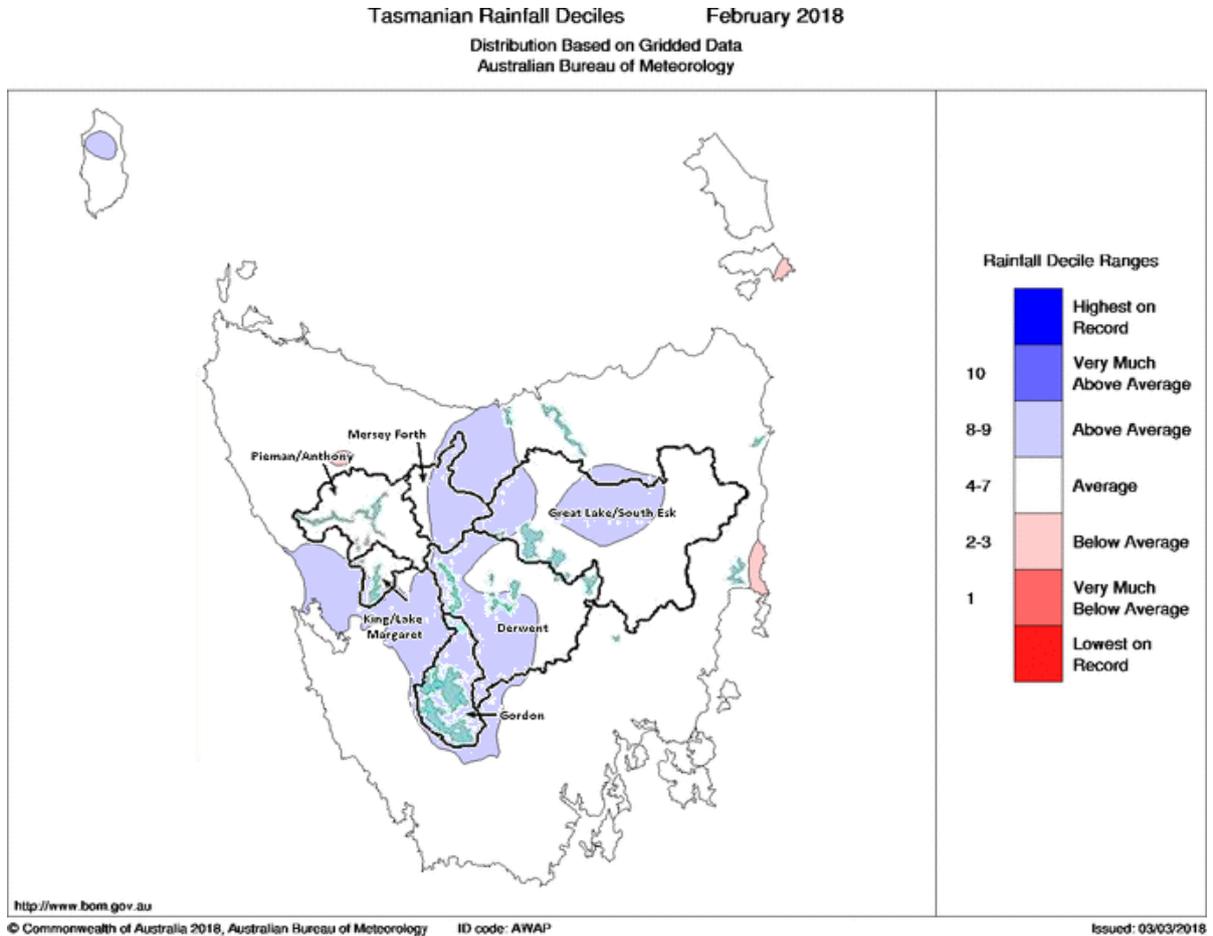
Rainfall in Tasmania - February

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



The Bureau of Meteorology reports that Tasmania's total rainfall for February was roughly 12% above the long-term average.

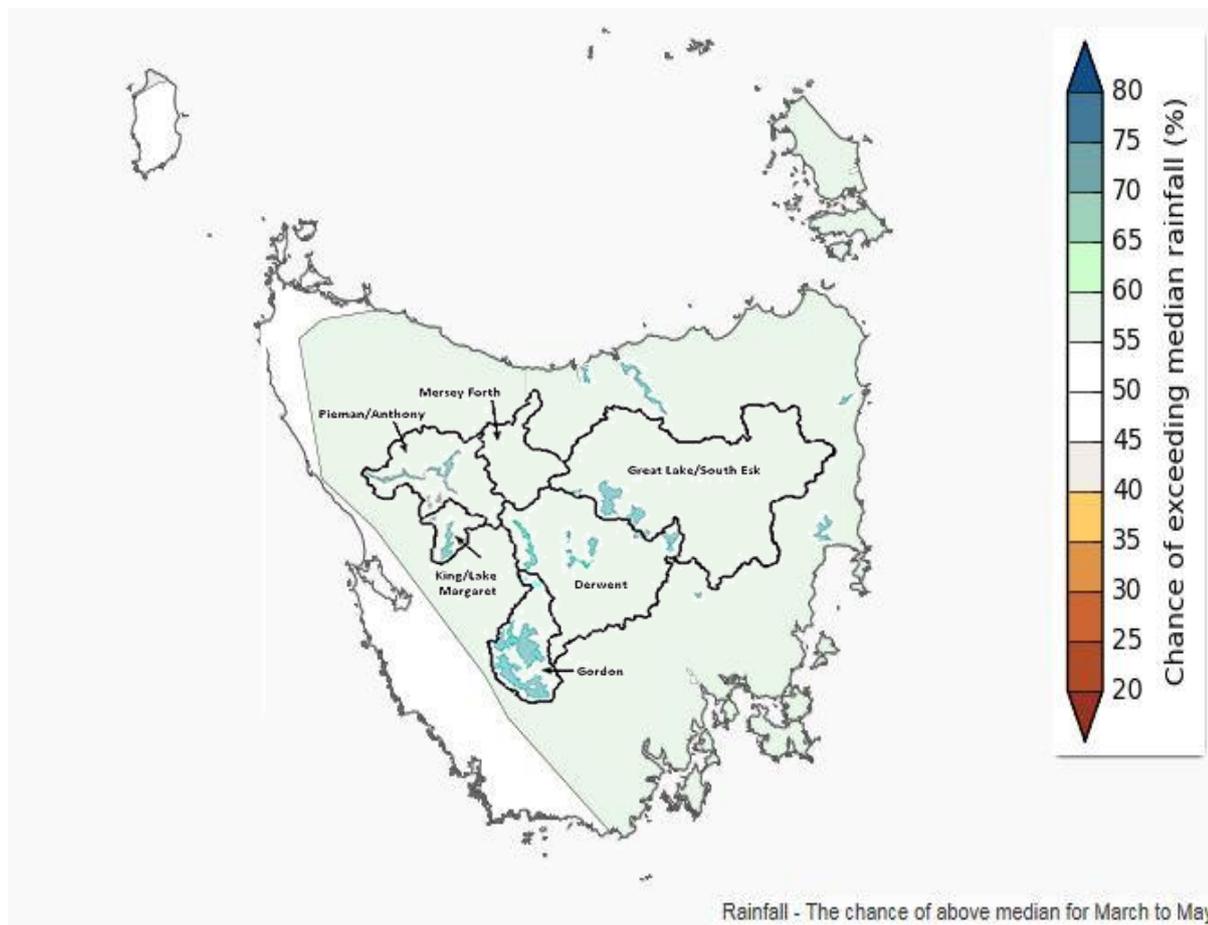
Rainfall in Tasmania - trends



Rainfall during February was close to average in most areas of Tasmania, but above average in parts of the central highlands and west. The majority of Hydro Tasmania's catchments experienced average or above average rainfall.

Despite some locally heavy rainfalls in Tasmania during February, serious to severe rainfall deficiencies remain at both 9-month and 11-month timescales in parts of the east and north-west. However, 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.