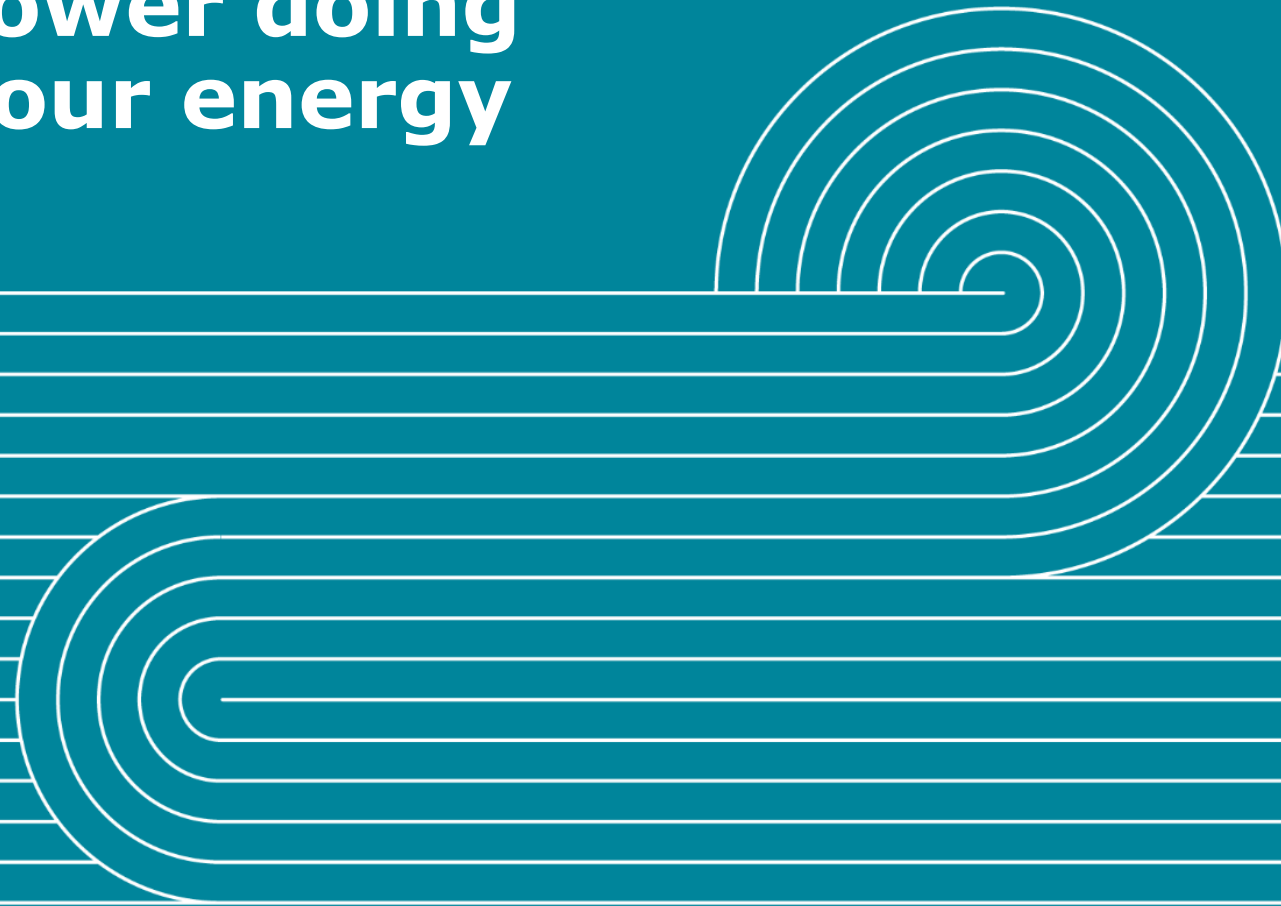




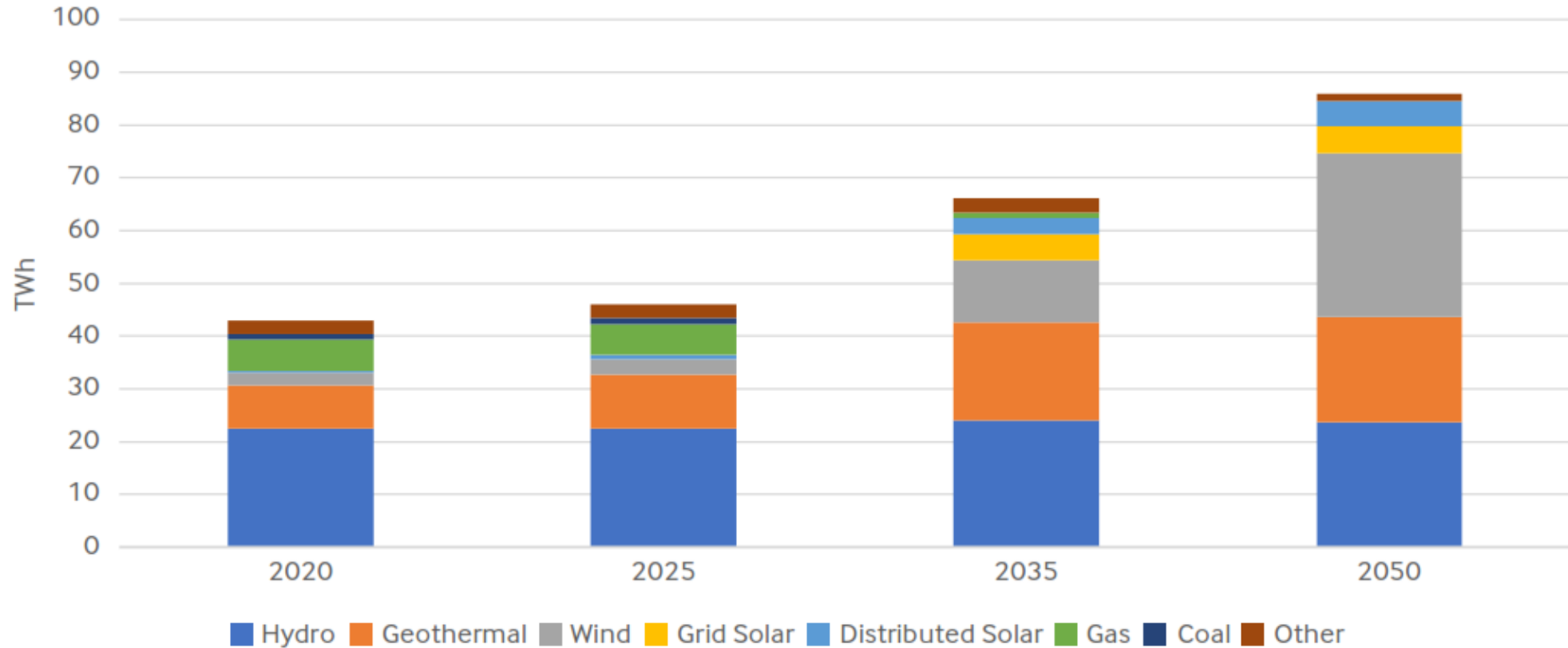
# What's Transpower doing to prepare for our energy future



1 May 2019

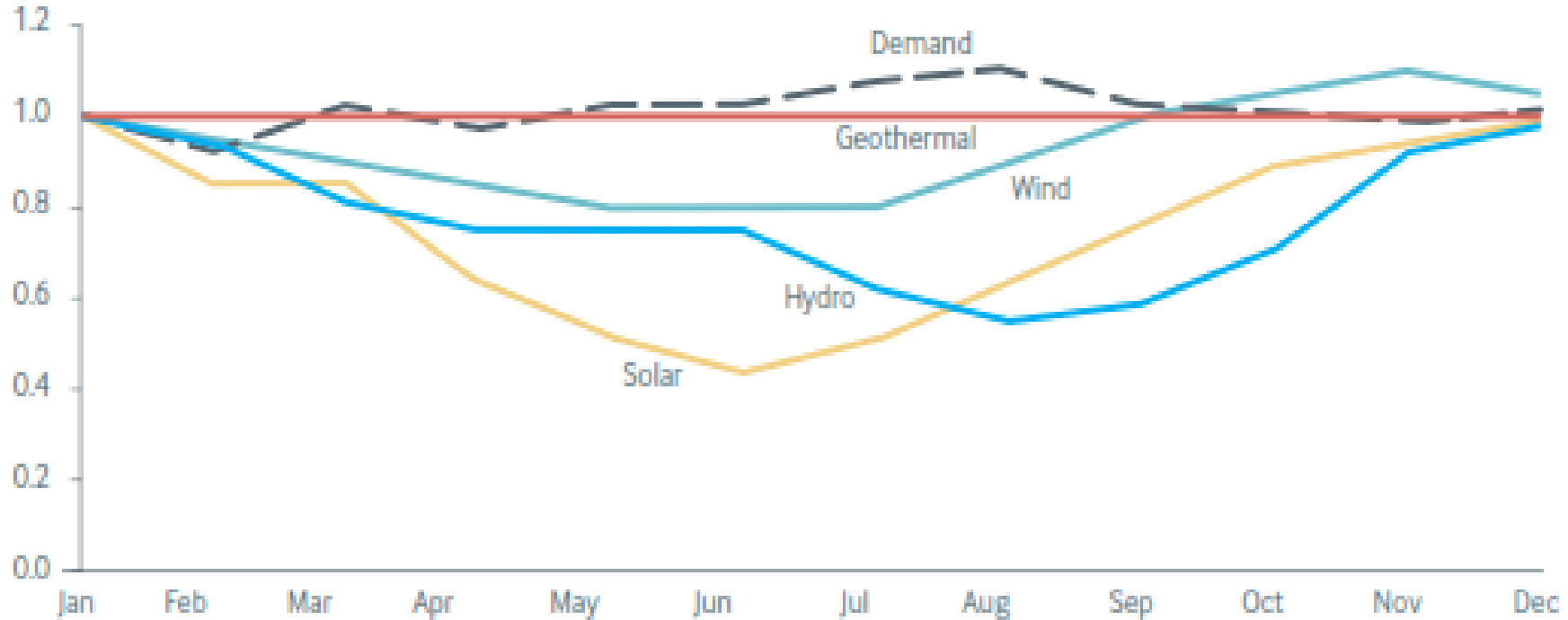
# A scenario of the future

Generation by Type NZ Inc plus Roaring Forties





# Intermittency



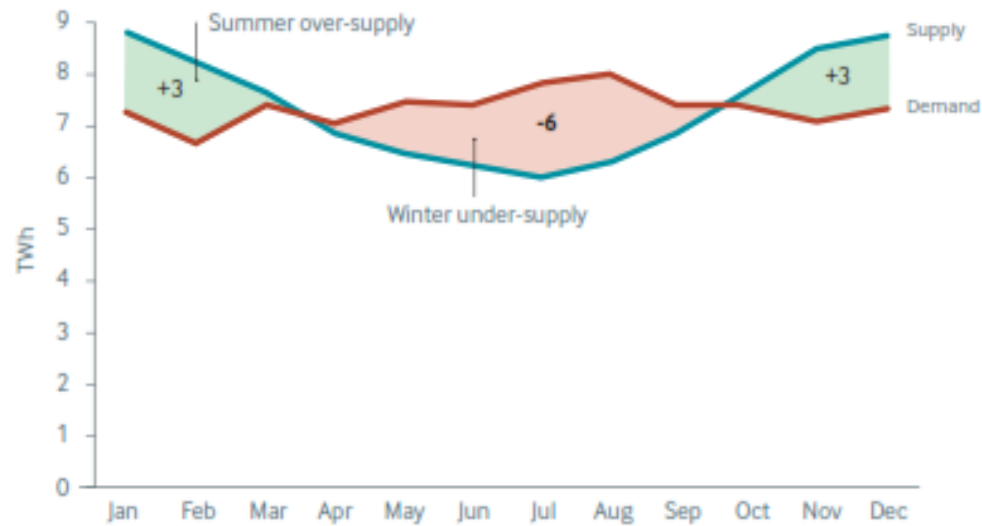
## New Zealand power system 2050





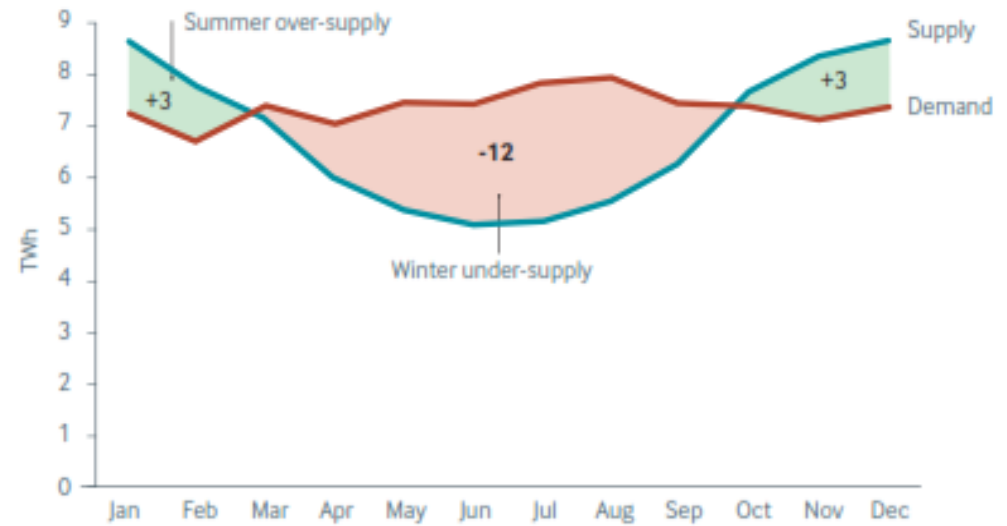
# Dry year risk

- Normal hydro year



Normal estimates of electricity supply and demand

- Dry hydro year



Dry year winter peak challenge



# Australian lessons

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## Malcolm Turnbull was told gas plant shut down before South Australia blackout

Documents show prime minister knew the failure of Torrens Island plant affected efforts to restart power before he made comments about renewables

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**Katharine Murphy** Political editor  
@murpharoo  
Mon 13 Feb 2017 03:37 GMT  
3,334 582  
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▲ Transmission towers carrying power lines toppled by high winds near Torrens Island, South Australia. Debbie Prosser/AP/Getty Images

Officials told Malcolm Turnbull a major gas plant storm that plunged South Australia into blackout malfunction caused by a lightning strike or an “automatic protection” to “protect generation assets”.

Documents obtained by the progressive thinktank suggest a failure of gas power played a significant role and during efforts to restart the power after the storm.

## Are the GREENS responsible for South Australia's blackout? All coal power stations closed and blown up months before super storm plunged the state into darkness

- Destructive winds crippled South Australian electricity grid on Wednesday
- Many are questioning how a storm can knock out an entire state's power
- South Australia closed its last coal-fired power station back in May
- State now relies on renewables - mainly wind power - for 40% of its power

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## New solar, wind projects may stall in face of network “bloodbath”

Giles Parkinson 12 March 2019 70 Comments

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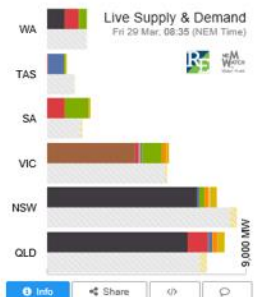


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# Challenges

