

System restart: a transmission perspective

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TransGrid's role in system restoration

- > Interaction with AEMO, AEMO will manage generation sources
- > Switching of TransGrid's transmission system to provide network availability for AEMO
- > Operating interaction with the DNSPs and Customers to arrange load restoration in conjunction with AEMO

Currently TransGrid holds annual training to help critical participants be prepared



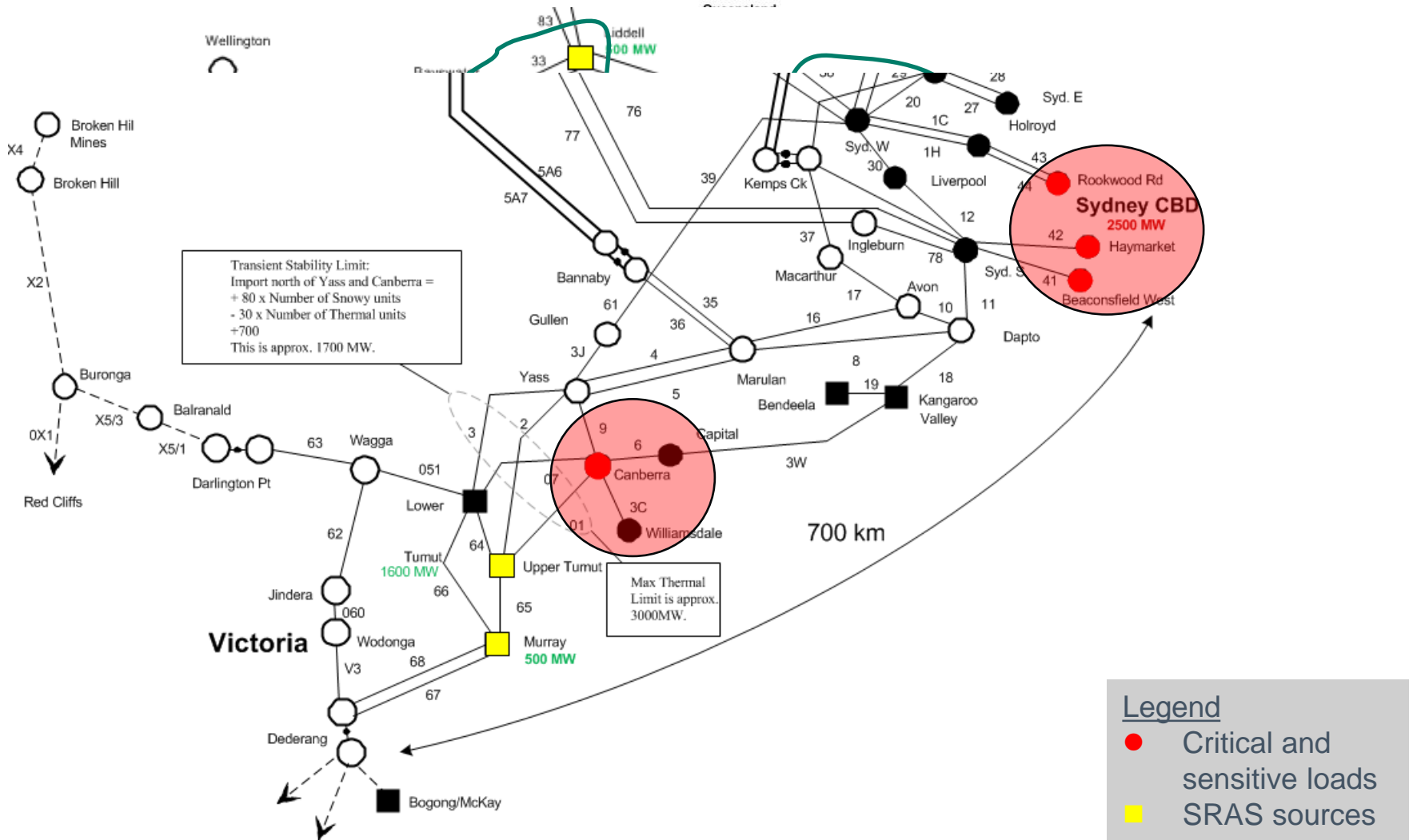
Restoration times

System restoration times are dependent on:

- > Location of SRAS sources
- > Network capability
- > Critical incident readiness of parties
- > Critical communications facilities

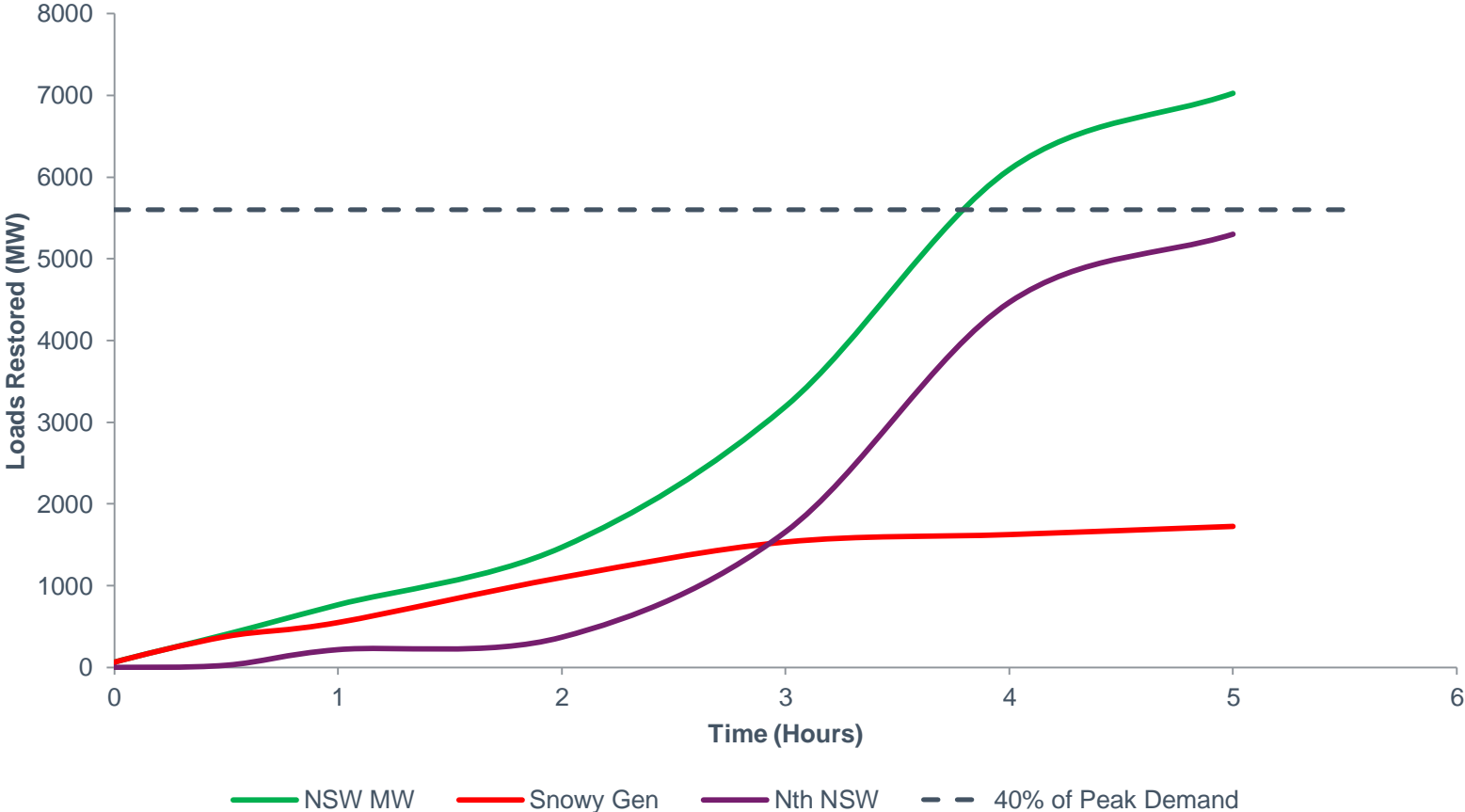
Restoration times must be achievable whilst remaining within network operating limits

Characteristics of pre-2015 SRAS



Restoration simulation using pre-2015 SRAS sources

Black Start Simulation Time Pre-2015

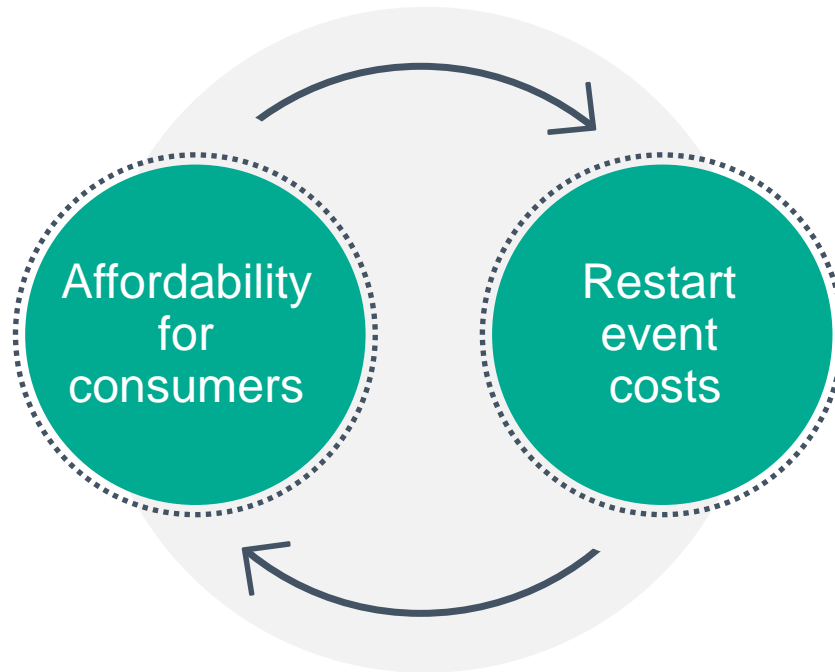


Restoration simulations

TransGrid run training and simulations of NSW a system restart on a yearly basis.

The next will be held in June 2016.

SRAS procurement



Balancing year on year costs with potential system restart costs is a challenge



Review of the SRS

Factors for consideration

- > Restoration times and categorisation of loads
- > Transition time between SRAS sources after procurement
- > Transparency and robustness of SRAS assessments by AEMO

We believe the standard should drive outcomes that are timely, achievable and affordable

It is important that the system restart is able to be performed in a timely and secure manner. There may be only one opportunity to meet the restart timeframe.