

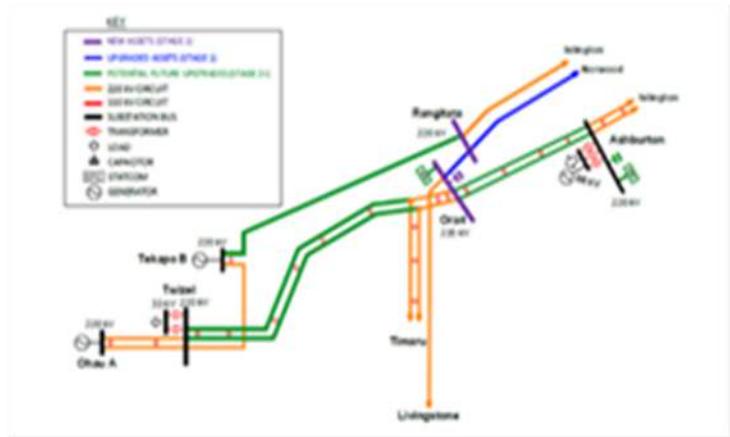
Capacity constraint forecast

As electricity demand continues to grow, more power will need to be transferred up the South Island, requiring voltage support to maintain a stable power supply. Without appropriate transmission investments in the upper South Island, reliability may be constrained by 2029, necessitating a flexible NTS to manage and address these projected constraints.

Current estimates indicate a demand response requirement of up to 34MW in winter and 93MW in summer, with possible shoulder period activity. These figures may change as updated load forecasts become available from local lines companies.

We are targeting the following Grid Exit Points (GXPs) for NTS, which provide the greatest value for deferral, however we are open to other GXPs.

- Ashburton - ASB
- Islington - ISL
- Timaru - TIM
- Temuka - TMK
- Norwood - NWD



Upcoming initiatives – request for proposals

If the Commerce Commission gives its final approval for the inclusion of the \$7 million NTS allowance, we plan to issue a request for proposals (RFP) for flexibility solutions providers around late Autumn 2026.

We are interested in new flexibility solutions for summer, winter, and potential shoulder periods that are not already reserved by other programs, and do not conflict with proposed 'active' times for upper South Island NTS.



Figure above: Forecasted demand response required by 2029/2030

Note: This information is based on a prudent load forecast which will be updated yearly as we move closer to the need date.

Proposals will be evaluated on economic benefit against the transmission option and we will also consider supplier capability and implementation risk as well as coordination with local lines.

If successful, this initiative could demonstrate how coordinated flexibility services can support the national grid in accelerating flexibility across Aotearoa.



Want to find out more?

For more information please email us at demandresponse@transpower.co.nz or visit our [upper South Island project page](#).