



**TRANSPOWER**

*Keeping the energy flowing*

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Anton Booyzen  
Network Manager  
PowerNet  
PO Box 1642  
**Invercargill 9840**

Dear Anton,

**ATTENTION:  
Extended Reduction in Transmission Security for Naseby 2021/22**

Transpower, the owner and operator of New Zealand’s National Grid, is carrying out a project to replace the conductor on its transmission line between Livingstone and Roxburgh that also supplies Naseby. This replacement is required to provide greater capacity – particularly important if the Tiwai smelter closes as indicated by New Zealand Aluminium Smelters earlier this year.

In order to meet our expected completion date of May 2022, we are working more intensively on the ground, and this impacts on the security of Naseby’s electricity supply over the next 18 months.

The purpose of this letter is to confirm the implications of a lessened security for Naseby during this time.

**What is happening?**

For around 51 weeks between mid-January 2021 and May 2022, security of supply to Naseby will be reduced to ‘N’ security. This means there will be no back up supply to Naseby in the event of the remaining circuit tripping. At present the periods of N security are as per the table below:

<b>Dates</b>	<b>Duration</b>	<b>Status</b>
From 12 January 2021 through to 28 May 2021	19.5 weeks	Confirmed
From August 2021 to October 2021 (actual dates TBC)	14.5 weeks	Tentative
From Mid Jan 2022 to Late May 2022	17.5 weeks	Tentative
<i>TOTAL</i>	<i>51.5 weeks</i>	

**What’s the risk to your consumers?**

Normally, Transpower’s supply to Naseby is such that a failure of any equipment will not cause an outage for consumers. However, during this work any failure of the remaining circuit will cause an outage to your consumers. This is because the limitations to protection

hardware mean that we cannot have auto-reclose enabled at Naseby, whilst this site is connected to a single 220kV circuit. As you know, auto-reclose when operating would quickly attempt to bring the tripped circuit back in (useful for events like lightning strikes or momentary faults on the line).

We are exploring options to permit auto-reclose to be enabled at the far end of the Naseby supply circuits. In this case, in the unlikely event our one supplying circuit trips, if the far end successfully auto-recloses, Naseby can be restored manually. In these situations, we will be able to return it to service hopefully within around 15 minutes, following due checks and balances.

In the very unlikely event of a significant fault such as a tower failure on the line, the outage period could be as much as 96 hours to install an emergency structure. If there is a more significant event that requires the outage to be recalled (such as station equipment failure), we anticipate up to 14 days will be required to do so (depending on the status of the reconductoring work at that time).

### **What contingency plans are in place?**

Transpower has checked its equipment that will be relied upon during this reduced level of supply security at Naseby, and we are comfortable that we have done all that we can to mitigate the risk of any other equipment tripping during this time. We are also keeping our maintenance crews handy to site to avoid long travel times, and we have briefed local helicopter companies (to allow rapid mobilisation following a fault occurring).

If an outage does occur, Transpower will follow its Customer Facing Event Communications guideline. This includes operational management of the outage, keeping PowerNet informed, answering any media queries and keeping the public updated through our Facebook page: [www.facebook.com/transpowernz](https://www.facebook.com/transpowernz).

Please feel free to provide this information to your key customers supplied by Naseby as you see fit, to ensure they are aware of the higher risk of outage during this time and can plan accordingly.

Yours sincerely,



Simon Leitch  
Project Operations Manager – Clutha Upper Waitaki Lines Project