



TRANSPOWER



## Customer Advice Notice

## Revision

**To:** CAN NZ Participants  
**Sent:** 18-mar-2024 13:13  
**Ref:** 5280433170

**From:** The System Operator  
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Revision of: **CAN, 4918303339, 18-aug-2023 15:08, Revised Upper North Island Voltage Stability Constraint**

### Revised Upper North Island Voltage Stability Constraint

The System Operator advises that a revision to the Upper North Island voltage stability constraint will be implemented.

As a part of the Ohinewai Temporary Bypass Project (or the Ohinewai Deviation Project), the Pakuranga-Whakamaru-1 circuit, which has been removed from service since September 2023, will be recommissioned and returned to service on 18/04/2024.

The recommissioning triggers the following constraint update:

#### UPPER\_NORTH\_ISLAND\_STABILITY\_P\_1G

$-1 * \text{HLY\_OHW1.1} + -1 * \text{HLY\_OHW2.1} + -1 * \text{HLY\_SFD.1} + -1 * \text{HLY\_TWH1.1} + 1 * \text{OHW\_OTA1.1} + 1 * \text{OHW\_OTA2.1} + -1 * \text{OTA\_WKM1.1} + -1 * \text{OTA\_WKM2.1} + -1 * \text{PAK\_WKM1.2} + -1 * \text{PAK\_WKM2.2} + -1 * \text{BOB\_HAM1.1} + 1 * \text{ARI\_BOB1.1} < 2500\text{MW}$

The effect of this constraint is to help maintain the Upper North Island voltage stability for a contingency of the largest connected generator or a major 220kV circuit in the region. This is achieved by managing flows through all transmission lines into the Upper North Island region.

The revised constraint will replace the following constraint:

#### UPPER\_NORTH\_ISLAND\_STABILITY\_P\_1F

$-1 * \text{HLY\_OHW1.1} + -1 * \text{HLY\_OHW2.1} + -1 * \text{HLY\_SFD.1} + -1 * \text{HLY\_TWH1.1} + 1 * \text{OHW\_OTA1.1} + 1 * \text{OHW\_OTA2.1} + -1 * \text{OTA\_WKM1.1} + -1 * \text{OTA\_WKM2.1} + -1 * \text{PAK\_WKM2.2} + -1 * \text{BOB\_HAM1.1} + 1 * \text{ARI\_BOB1.1} < 2500\text{MW}$

If you have any queries, please email [OPS.Planner@transpower.co.nz](mailto:OPS.Planner@transpower.co.nz)

For further information on the existing outage and permanent constraints go to:  
<https://www.transpower.co.nz/system-operator/operational-information/security-constraints>

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A revision of this notice will be issued if there is any change to the situation above.