South Waikato

NATIONAL GRID CONNECTION

We're here to deliver power to your door safely, reliably and efficiently. We're investing over $78m in the South Waikato to ensure we're delivering the electricity needs of the region now, and in the future.

One of our projects is the construction of a new connection to the national grid.

We're investing over $33 million to build a new circuit between Transpower's Arapuni Substation and our existing Putaruru Substation.

Currently the Putaruru, Tirau and Hinuera areas are supplied by a single Transpower line between their Karapiro and Hinuera Substations. When this Transpower line experiences an outage or needs maintenance there is complete loss of power to 11,500 customers.

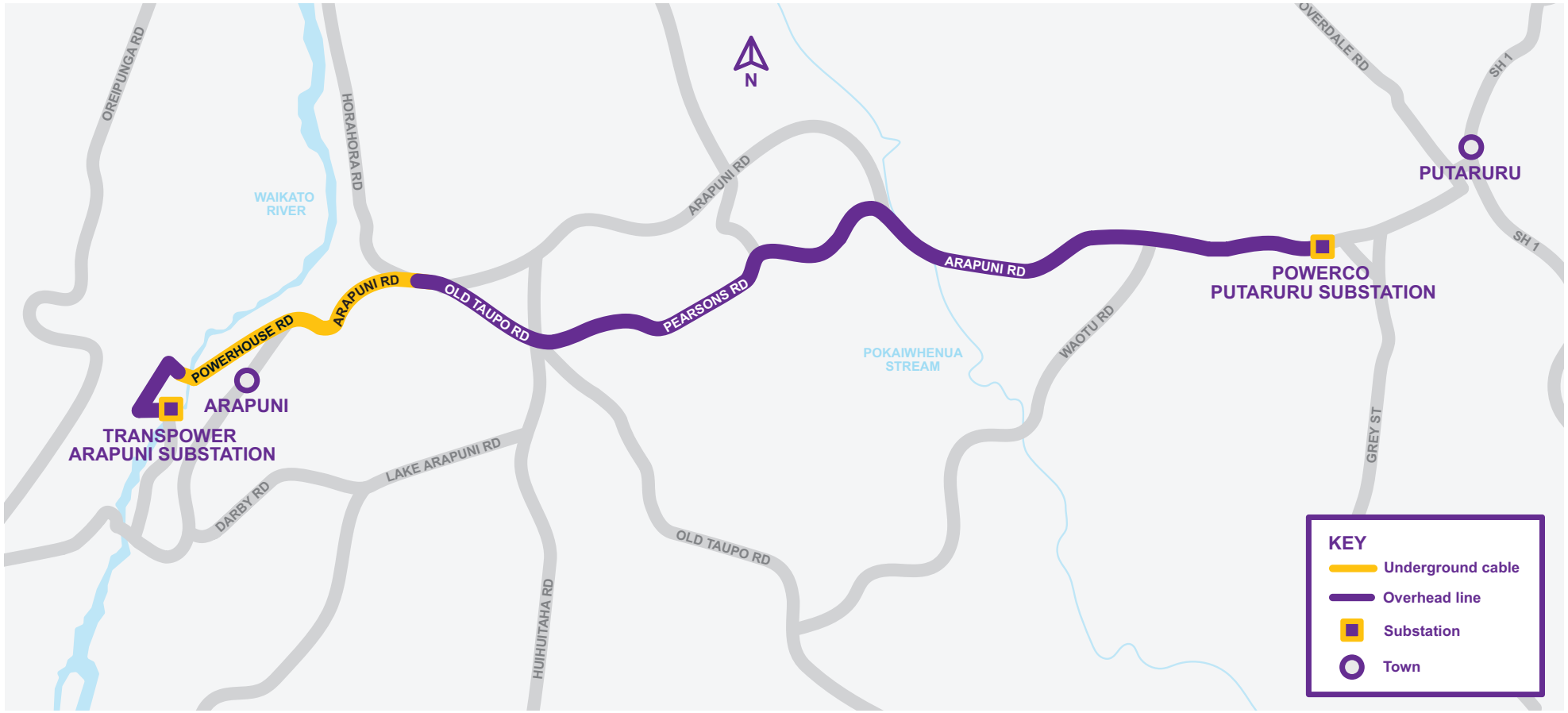
Once complete, our new circuit will improve reliability and increase capacity by providing a new source of supply to our Putaruru Substation.

You'll find information about this project in this pack.

For more information visit
powercodelivering.co.nz

POWERCO
part of your community

CIRCUIT ROUTE



VISUAL IMPACT

While we cannot provide definitive information about the visuals of the overhead sections of the circuit, this is an example of what it may look like.

We estimate poles will be 18-20 metres high, with spans of approximately 50-200 metres between each pole.

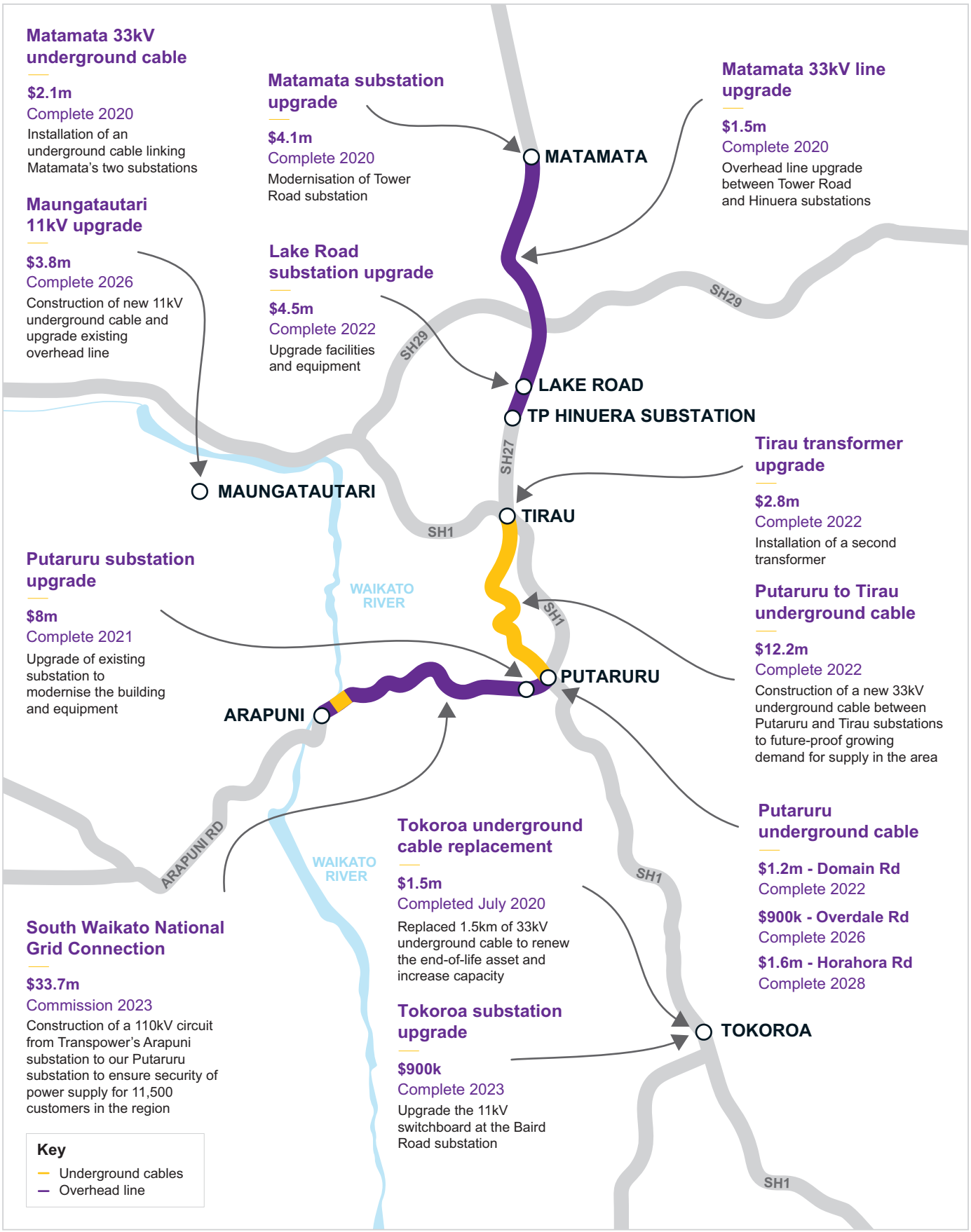
FAQs

Question	Answer
What will the impact of construction be?	We are still in the planning phase, so we can't be definitive. At this stage, we know we will need traffic management while we install overhead poles and line along the road reserve.
What will the visual impact of the overhead lines be?	We do not yet have a detailed design of the overhead lines, but at this stage we believe the poles will be 18-20 metres high with spans of approximately 50-200 metres between each pole.
Why not build the entire circuit as underground cable?	We are using a mix of underground cable and overhead lines due to considerations including cost and terrain.
When will a detailed design be available?	Detailed designs will be ready mid-2021.
How long will construction take?	At this stage we plan to start construction by the end of 2021 and be complete by mid-2023.
Can I be sure I'll never experience power outages once the new connection is built?	We can never guarantee 100% supply, however this circuit will help ensure security of supply for the region.

GLOSSARY OF OUR TERMS

Terms	Explanation
Cable	Underground electricity conductors.
Circuit	Connects two substations. Is made up of lines, cables or a mix of both.
Line	Overhead electricity conductors supported on poles.
National Grid	New Zealand's high voltage transmission network. The National Grid takes electricity from power generators to distribution networks.
Powerco	We are a distribution network - we own and maintain circuits that connect to the National Grid, and the lines and cables that deliver electricity to houses and businesses.
Power Station	Generates electricity, such as hydro, thermal or wind generation.
Substation	A site for equipment like transformers and switchrooms.
Transpower	The State-Owned Enterprise that owns and operates the National Grid.

OUR PROJECTS FOR SOUTH WAIKATO



Matamata 33kV underground cable

$2.1m
Complete 2020
Installation of an underground cable linking Matamata's two substations

Matamata substation upgrade

$4.1m
Complete 2020
Modernisation of Tower Road substation

Matamata 33kV line upgrade

$1.5m
Complete 2020
Overhead line upgrade between Tower Road and Hinuera substations

Maungatautari 11kV upgrade

$3.8m
Complete 2026
Construction of new 11kV underground cable and upgrade existing overhead line

Lake Road substation upgrade

$4.5m
Complete 2022
Upgrade facilities and equipment

Tirau transformer upgrade

$2.8m
Complete 2022
Installation of a second transformer

Putaruru substation upgrade

$8m
Complete 2021
Upgrade of existing substation to modernise the building and equipment

Putaruru to Tirau underground cable

$12.2m
Complete 2022
Construction of a new 33kV underground cable between Putaruru and Tirau substations to future-proof growing demand for supply in the area

Putaruru underground cable

$1.2m - Domain Rd
Complete 2022

$900k - Overdale Rd
Complete 2026

$1.6m - Horahora Rd
Complete 2028

Tokoroa underground cable replacement

$1.5m
Completed July 2020
Replaced 1.5km of 33kV underground cable to renew the end-of-life asset and increase capacity

Tokoroa substation upgrade

$900k
Complete 2023
Upgrade the 11kV switchboard at the Baird Road substation

South Waikato National Grid Connection

$33.7m
Commission 2023
Construction of a 110kV circuit from Transpower's Arapuni substation to our Putaruru substation to ensure security of power supply for 11,500 customers in the region

Find out more

YOU CAN FIND OUT MORE ABOUT THIS PROJECT BY:

powercodelivering.co.nz/projects/south-waikato-national-grid-connection

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For more information visit
powercodelivering.co.nz

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