

Investing in Northland's future

Northpower's newly updated Asset Management Plan outlines the planned investment in our electricity network over the next ten years.

Northpower is responsible for delivering reliable, resilient and safe electricity services today and into the future for our communities of Whangārei and Kaipara.

This 2021 Asset Management Plan enables that future and sets out a roadmap to support our customers as they increasingly generate and store their own electricity, sell it to others, and use the network to power their electric vehicles.

Supporting growth

Northpower plans to spend around 30% of capital expenditure on growth related projects to cater for the region's population increase, including a new substation in Waipu.

Replacing assets

60% of the capital expenditure will be spent renewing aging assets – both our substations and overhead and underground lines. Many of our substation assets were installed in the 1950s and 60s and are now reaching end of life. Our plan outlines a targeted replacement programme to ensure this equipment is replaced to ensure resilience and reliability of the network.

Preparing for the future

We're transitioning our network control system to a new advanced control system, which has enhanced cyber security, inbuilt safety features and importantly will be able to provide us with visibility and control to support smart energy technologies (such as solar panels, and electric vehicles).

Maintaining our Network

In addition, we are planning to spend around \$11m per year on maintaining our network, including \$3m on vegetation clearance, \$2.6m on attending to faults and outages, and \$4.7m on inspecting and maintaining the network.

Our region is one of the fastest growing in New Zealand

Whangārei District

Population **98,300**
Increase **↑ 17.4%**
(2013 to 2020)

Kaipara District

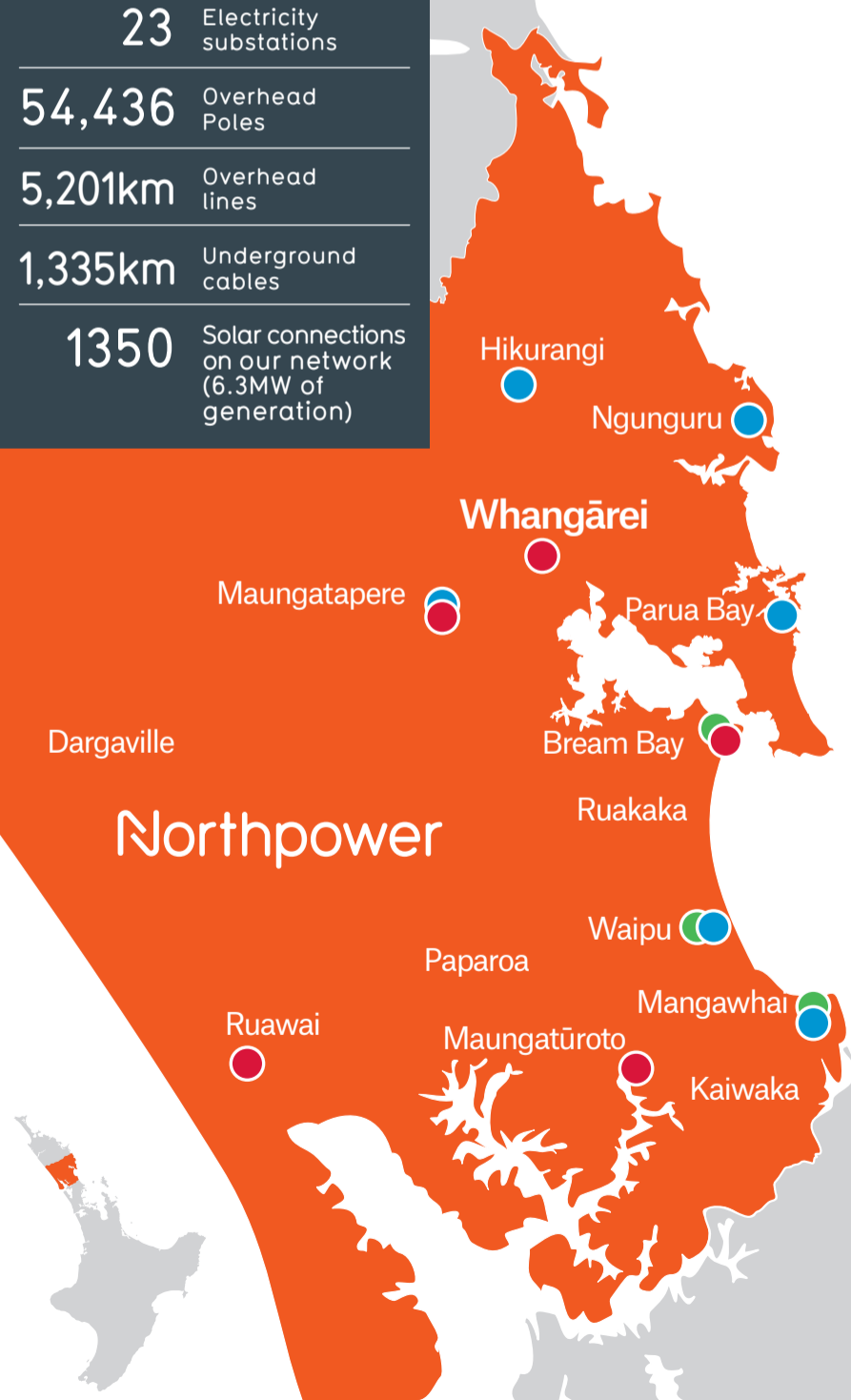
Population **22,200**
Increase **↑ 22.9%**
(2013 to 2020)

Our network

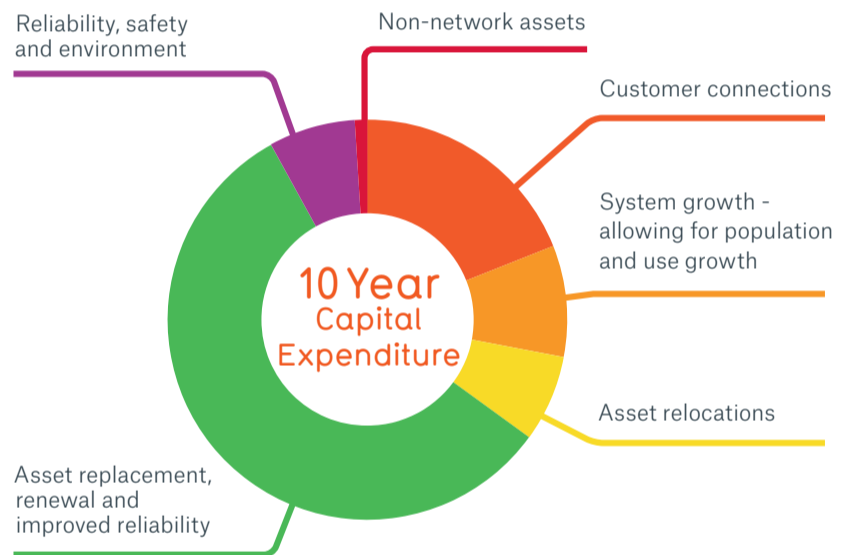


- 23** Electricity substations
- 54,436** Overhead Poles
- 5,201km** Overhead lines
- 1,335km** Underground cables
- 1350** Solar connections on our network (6.3MW of generation)

You can read Northpower's newly updated Asset Management Plan at: northpower.com/amp



\$251m to be spent on new and upgrading our network assets over the next 10 years



Improving Network Reliability

Whakapara 11kV Express line extension

To improve performance of the feeder and ensure ongoing reliability of supply.

Maungatapere 33kV switchyard

Indoor existing outdoor switchyard to improve reliability and safety.

Upgrading 11kV lines

Programme to improve back feed capacity to reroute electricity supply in the event of an outage to support communities at Ngunguru, Parua Bay, Waipu and Mangawhai.

Supporting Growth

Waipu Substation

New substation to increase capacity and meet growth as well as a new line from Ruakaka to Waipu.

New line from Maungatūroto to supply Mangawhai

To increase reliability of supply for the growing township.

Bream Bay substation

Install a second 10 MW transformer and upgrade switch board to increase capacity and meet growth.

Update / Replace Assets

Ruawai substation

Replace transformers and switchgear.

Maungatūroto Substation

Replace end of life transformer and upgrade switch gear to ensure security of supply.

Maungatapere Substation

Replace end of life transformers with larger units to maintain reliability of supply.

Kensington substation upgrade

Replace transformers and switchgear.

Bream Bay substation

High Voltage Switchboard replacement.

Overhead line and pole replacements

Replacing overhead network assets as they reach end of life (poles, crossarms, conductors).

The map shows a snapshot of some of the major projects we have planned over the coming 10 years.