

NGĀWHĀ OEC5 PROJECT

Building the resilience and reliability
of power supply in the Far North



Our geothermal power generation facility at Ngāwhā is expanding, with the addition of a new power station known as OEC5.

Renewable geothermal power has been generated at Ngāwhā since 1998, when the first 10MW station started operation. This was expanded with another 15MW unit in 2008 and the most recent station, the 32MW OEC4, commissioned in 2020.

OEC5 will be the same size as OEC4 and located adjacent to that plant, sharing some of the existing infrastructure.

Our stations are operated locally by a dedicated team of operators and maintainers.



Ngāwhā Generation Ltd is situated at Ngāwhā Springs, approximately 5km from the township of Kaikohe in Te Hiku o te Ika (the Far North).

PROJECT DETAILS

Location

On land owned by Ngāwhā Generation Ltd.

Production Wells

Two new wells on each of two new platforms, 1500 – 1800m deep.

Pipeline Length

Approx 5 km.

Station Type

Organic rankine cycle (binary plant) as used since 1998 at Ngāwhā and extensively for geothermal power generation in New Zealand and overseas.

Plant output

32MW, baseload (steady load 24/7), approx. 250 GWh per year, equivalent to 30,000 homes.

Project Cost

>\$250m

Environment

Resource consent conditions granted by district and regional councils in 2017 govern both construction and operation of the geothermal power generation facility. Construction of OEC5 will be incorporated into the established management and monitoring plans.

Ngāwhā Generation has achieved Environmental Protection Agency certification for 100% reinjection of green house gas emissions from its operating stations. OEC5 is designed to operate in a similar way, with all geothermal fluid (water and gas) extracted from the

ground, reinjected back to the geothermal reservoir from where it originated.

Community Engagement

With the established community liaison committee, we engage with our immediate neighbours and key stakeholders on a regular basis.

As part of Top Energy, we fund many community sponsorship programmes, such as; Northern Rescue, Young Enterprise, Healthy Homes Tai Tokerau and the Energy Wellness Fund.

For more information, please go to:

www.ngawhageneration.co.nz

or email: info@ngawhageneration.co.nz