NEW ZEALAND

Superhot Geothermal Exploration

Contact Us

kanoa@mbie.govt.nz

growregions.govt.nz/GeoShotNZ

Connect with us to explore more

Todd Energy's Big Ben Drilling Rig, Rotokawa. Credit: Mercury NZ.

GeoShot NZ

Kānoa
Regional Economic Development & Investment Unit

NZ$60 million government funding for superhot geothermal exploration

The New Zealand Government is putting NZ$60 million into a pioneering project to drill for superhot geothermal fluids in New Zealand's active Taupō Volcanic Zone.

GeoShot NZ is a groundbreaking cross-discipline, cross-border technological and scientific endeavour. If successful, it will substantially increase global understanding of superhot geothermal, which has the potential to deliver low-emissions, renewable energy with more than three times the power of conventional geothermal.

Superhot geothermal is the future of energy

GeoShot NZ welcomes funders, innovators, and collaborators to join us in unlocking the potential of superhot, superdeep, supercritical, low-emissions and virtually limitless geothermal energy.

Geothermal systems in New Zealand's Taupō Volcanic Zone.
Credit: Earth Sciences NZ.

New Zealand offers...

Stable politics and economy, low sovereign risk
New Zealand offers a transparent, stable political framework, a robust legal system that supports foreign direct investment, and a government focused on ensuring energy security.

Renewable energy domestic demand
An island nation of industry and agriculture, with more than 80% of electricity generated from renewable sources and almost 20% generated from conventional geothermal.

A pioneering geothermal legacy
Geothermal resources harnessed for centuries by Māori for cultural, spiritual, and practical uses. Home to the world's second geothermal power station and an established geothermal industry since the 1950s. Extensive knowledge and experience that has played a major role in the geothermal sector globally.

Skilled workforce
A skilled workforce with global expertise in geothermal production, scientific research, engineering and drilling, environmental management, and innovation.

Leading indigenous relations
Established frameworks and legal settlements with Māori iwi (tribes) supporting streamlined collaborative project development.

Ideal testbed
Located on a highly active tectonic plate boundary and unique geology with a thin crust and molten rock close to the surface. Host to more than 20 world-class geothermal systems. More than seven decades of operational experience, geological data, modelling expertise, and a collaborative research environment.

MINISTRY OF BUSINESS, INNOVATION & EMPLOYMENT
HĪKINA WHAKATUTUKI

Te Kāwanatanga o Aotearoa
New Zealand Government

NEW ZEALAND

Superhot Geothermal Exploration

Contact Us

kanoa@mbie.govt.nz
growregions.govt.nz/GeoShotNZ

Connect with us to explore more

Te Puia. Credit: Graeme Murray.

Harnessing the power beneath our feet

Kānoa
Regional Economic Development & Investment Unit

A solution to the global energy crisis

Superhot geothermal offers a resilient, clean, scalable solution in a world facing energy security risks from geopolitical instability and climate extremes.

Be part of global innovation

GeoShot NZ is a pioneering New Zealand led and based collaborative superhot geothermal exploration project that complements and accelerates international efforts.

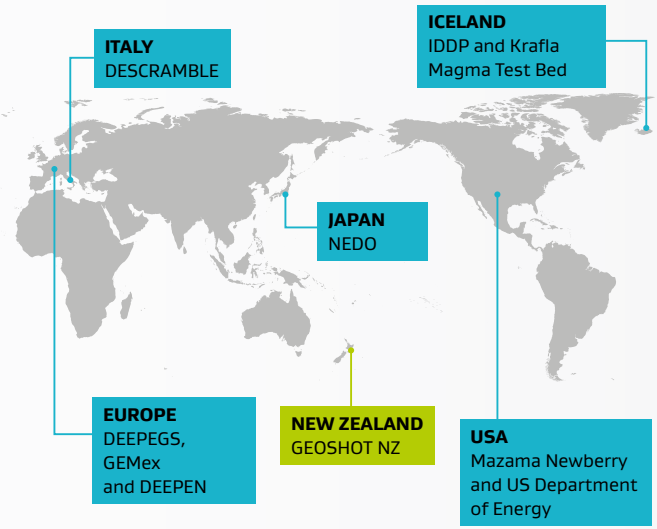
We're part of a global superhot geothermal movement but we're uniquely positioned to lead due to shallower drill depths and deep geothermal knowledge. We have world-class expertise and capability, from foundational science to experimental research facilities that can simulate superhot conditions, and innovative and experienced engineering.

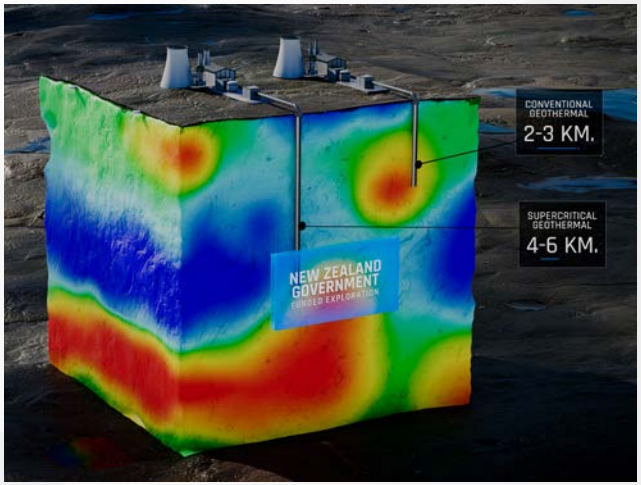
We're working with international experts - sharing knowledge and building on global efforts that will benefit all.

We're aiming deeper, hotter, cleaner

Superhot geothermal exploration is high-risk, high-reward and globally relevant.

This is the next frontier of clean, resilient energy. GeoShot NZ presents a portfolio of opportunities for research and technology development, a testbed for high-performance tools, materials or systems in real-world conditions with strong commercialisation potential.





Credit: Earth Sciences NZ.

MINISTRY OF BUSINESS, INNOVATION & EMPLOYMENT
HĪKINA WHAKATUTUKI

Te Kāwanatanga o Aotearoa
New Zealand Government

KNO 12735