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Media release: Green hydrogen revolution: Good Water Energy's game-changing project approved in the Northern Territory

Key points

- Good Water Energy has received drilling approval from the Northern Territory Government for its Middle Arm Geothermal Exploration Project, its first Australian geothermal project.
- The company's patented technology is projected to harness a fraction of the Earth's geothermal heat resource through a closed-loop well system.
- The technology aims to produce Australia's most cost-effective 100% baseload, green electricity, desalinated water and hydrogen.

Good Water Energy (GWE), an Australian geothermal energy innovator, is proud to announce that it has received approval from the Northern Territory Government for its first Australian geothermal project.

The groundbreaking initiative includes the drilling of an exploration well below 6,000 metres deep to access hot granite rock, the injection of desalinated sea water and generation of baseload electricity. The green electricity, distilled water and excess thermal energy will then be used to produce *very* low-cost green hydrogen.

The project, located at Middle Arm, is based on a closed-loop system — a process that avoids fracking, groundwater extraction and once operational, essentially all greenhouse gas emissions.

Using patented and other proprietary drilling technology successfully demonstrated in Finland and Australia, GWE is targeting production of green hydrogen at a highly competitive price per kilogram.

The company aspires to up-scale its operations, with an annual target of up to 1 million tonnes of green hydrogen from coastal property close to Darwin. Once operational, this innovation could be replicated in other areas, transforming the Australian renewable energy market and making a substantial contribution to the country's renewable energy transition.

Good Water Energy Chairman and founder Mr. Warren Strange explained the pioneering geothermal technology promises to transform Australia's renewable energy landscape and achieve net-zero goals.

"This approval represents a major milestone in the renewable energy sector," explained Mr. Strange.



“The journey towards a sustainable and renewable baseload energy source for communities, industries, and agriculture has just become significantly easier.

“Our innovative and proven drilling technology enables commercially viable access to high-temperature thermal heat from deep geothermal wells at any location.

“By utilising the waste thermal energy after electricity generation, we are aiming to make green hydrogen production more efficient than ever before.

“This technology's purpose is to provide an affordable, reliable alternative to fossil-derived energy while avoiding the high costs, timeframes and technical challenges associated with nuclear energy.”

With government approval, GWE can now advance its Middle Arm Geothermal Project with the object of demonstrating the viability of its technology and paving the way for larger-scale operations, including plans for a major green hydrogen production project in the Darwin region.

“We're excited to showcase to the world our strategy to produce very competitively priced green hydrogen and to show it is no longer just a vision but a fast-approaching reality,” said Mr. Strange.

This project aligns with Australia's commitment to achieving net-zero emissions by 2050. By harnessing Earth's geothermal heat, GWE is positioning the Northern Territory as a global leader in clean energy technology.

About Good Water Energy

Good Water Energy (GWE) is dedicated to producing commercially viable, sustainable, emission-free renewable energy from geothermal heat resources. By leveraging proprietary technology developed in-house, GWE is targeting the delivery of scalable solutions for electricity generation, green hydrogen production and seawater desalination. With a projected operational lifespan of over 70 years for its geothermal systems, GWE's intention is to support Australia's transition to renewable energy at scale while addressing critical water shortages.

For more information, visit:
www.goodwaterenergy.com

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