

SKYRE Pioneers Breakthrough Technology to Unlock the Promise of Geologic Hydrogen

SKYRE's next-gen H2RENEW™ Gemini-1 Series is advancing clean energy production with cost-effective hydrogen recovery

EAST HARTFORD, CT, UNITED STATES, July 7, 2025 /EINPresswire.com/ -- As the global race to tap geologic hydrogen heats up, SKYRE is stepping forward with a breakthrough: field-proven technology purpose-built for the realities of early-stage recovery.

Originally designed for complex industrial hydrogen applications, the [next-generation H2RENEW™ – Genesis-1 Series](#), is uniquely equipped for geologic hydrogen. It thrives where conventional systems fail – handling dilute streams, intermittent flows, and unrefined inputs with ease.

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Geologic hydrogen recovery is an application where H2RENEW can shine – offering a cost-effective way to produce usable hydrogen at prices that can beat/rival traditional production – as low as \$1/kg.”

Dr. Trent Molter, President & CEO

Geologic hydrogen – naturally occurring hydrogen trapped beneath the Earth’s surface – is emerging as one of the most exciting frontiers in clean energy. Unlike conventional hydrogen, which must be produced using energy-intensive processes, geologic hydrogen simply exists. Tapping it could unlock vast, low-cost, low-emissions supplies that change the economics of hydrogen forever.

While exploration teams map and sample promising sites from France to Australia to the U.S., one reality is clear: recovering and processing geologic hydrogen requires economical and [advanced gas separation and compression](#)

[capabilities](#). That’s exactly what SKYRE’s H2RENEW delivers – recovering hydrogen at up to 99.999% purity from mixed gas streams. Originally built for complex industrial use, it’s a natural fit for the [geologic hydrogen recovery](#).

Geologic hydrogen is no longer theoretical as the world is drilling now. After nearly two decades



H2RENEW Gemini-1 Series, 500 kg/day delivering 99.999% pure pressurized hydrogen

of refining hydrogen separation and compression systems, SKYRE is ready to meet this moment with proven, deployable technology.

Unlike lab-scale concepts or custom-built prototypes, SKYRE brings field-tested technology to an industry that can't afford to wait. The company's modular, adaptable systems provide a real path to production – cutting costs, accelerating deployment, and de-risking early operations.

As the energy sector shifts toward low-carbon solutions, geologic hydrogen presents one of the most promising – and untapped – frontiers. With SKYRE's proven H2RENEW hydrogen recovery systems, the future of clean, naturally sourced hydrogen is no longer a question of if – but how fast we can bring it online.

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