



Geothermal energy companies in texas

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Sage Geosystems(TM) is a game-changing company that makes geothermal energy available and affordable everywhere by not only harvesting heat but also pressure in a well. We use proven oilfield technology, which helps us cut costs. We can provide geothermal power or energy storage that is reliable, flexible, and sustainable.

Continuing as a leader in clean energy innovation, Austin Energy is partnering with Exceed Energy Inc. to pilot a first-of-its-kind advanced geothermal project near its Nacogdoches biomass-generating facility. The pilot is expected to be online and producing carbon-free electricity in 2025 and could signal the next green energy innovation in Texas.

Geothermal has long been the most energy efficient, environmentally friendly way to electrify your buildings. Now, Bedrock's novel technology is finally making geothermal borehole fields affordable, fast, and space-efficient to install, with predictable performance you can rely on.

The project is a joint venture between Sage Geosystems, a private green energy company, and the Bureau of Economic Geology at the Jackson School of Geosciences at the University of Texas at Austin, based on a U.S. Air Force-funded initial feasibility study. As a first step, Sage will test the new technology in an existing oil well on a ranch south of San Isidro in Starr County, near the Texas-Mexico border.

"We identified a well in South Texas that was previously drilled by Shell for oil and gas 50 years ago," Lev Ring said. He has a doctorate in aerospace engineering, worked in the oil and gas industry and is now CEO of Sage Geosystems, which expects to spend several million dollars for the initial field testing.

"To check for success [in testing], we will be measuring temperature, pressure and flow rate of fluid in the well," Ring said. "The moment we get the data, we will be able to simulate how much energy or electricity we will be able to generate."

The prototype will combine advances made in the oil and gas industry to drill a single, narrow well 3 or 4 miles into the earth to touch the heat of the magma, or molten rock, beneath the earth's crust. Using that heat source, the project aims to create a closed-loop system to produce energy without any carbon emissions.

It will generate power by circulating a fluid deep in the earth, where it absorbs heat from the magma before returning to the surface. From that point, the power generation is essentially the same as in any other power plant: the heat is used to drive a turbine to generate electricity, said Kenneth Wisian, a retired Air Force major general and associate director of the UT-Austin School of Economic Geology. Wisian is a research scientist in geothermal energy.



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The project includes a surface generator which will sit almost directly on top of the well. The power produced will feed into a microgrid for efficiency, and that in turn will connect to systems that need power at all times, such as military bases and hospitals. Separately, it will connect to a commercial power grid off base.

A microgrid is a small, self-sufficient energy system that serves a specific location that needs constant energy, in this case Ellington Field. The base stands at the edge of a geopressure zone, an area abundant in underground heat, water and permeability, key ingredients of geothermal, according to the U.S. Department of Energy.

"The goal of Sage as well as many geo-startups is to drill cheaply and effectively for geothermal energy to compete with wind and solar," said Jamie Beard, the executive director of GEO, a Department of Energy-funded geothermal entrepreneurship organization at the UT-Austin.

Wind and solar are intermittent energy sources that generate power only when there's wind and sunlight, and the electricity they generate must be stored. Because geothermal energy is always on, Beard said, it doesn't require storage.

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