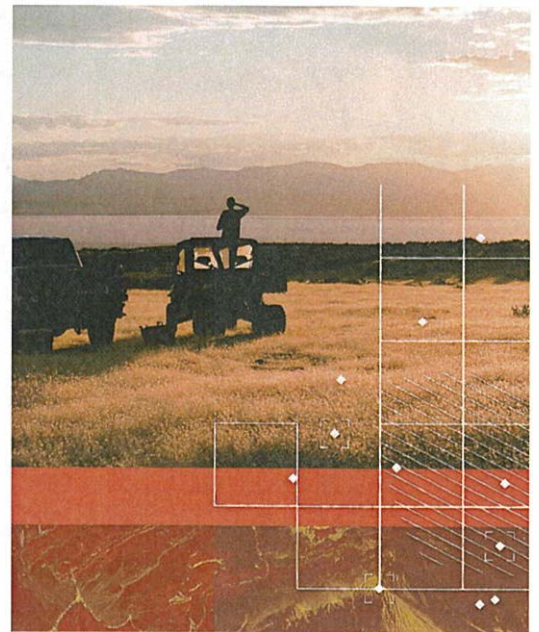


What is Geothermal Energy?

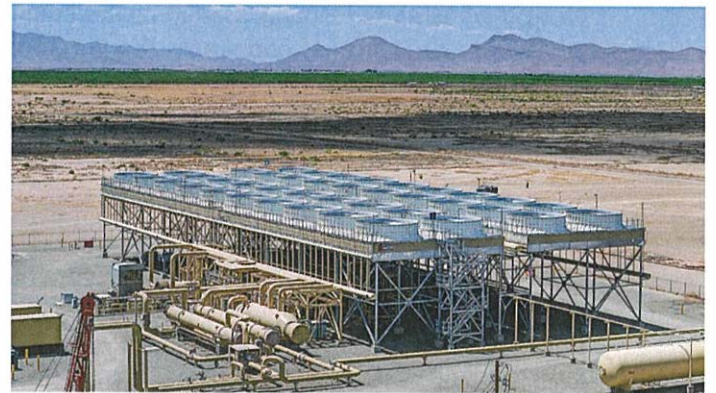
Geothermal energy draws on naturally-occurring heat deep within the earth, where temperatures naturally exceed hundreds of degrees, providing a steady source of heat. Geothermal energy puts that heat to work to create power.

There are multiple approaches to developing geothermal resources into viable power sources. Two common approaches are 1) **conventional geothermal/hydrothermal** and 2) **enhanced geothermal systems (EGS)**. While Zanskar is open to using both, our Lightning Dock Geothermal power plant currently uses conventional geothermal (or hydrothermal) technology.



Here's How It Works

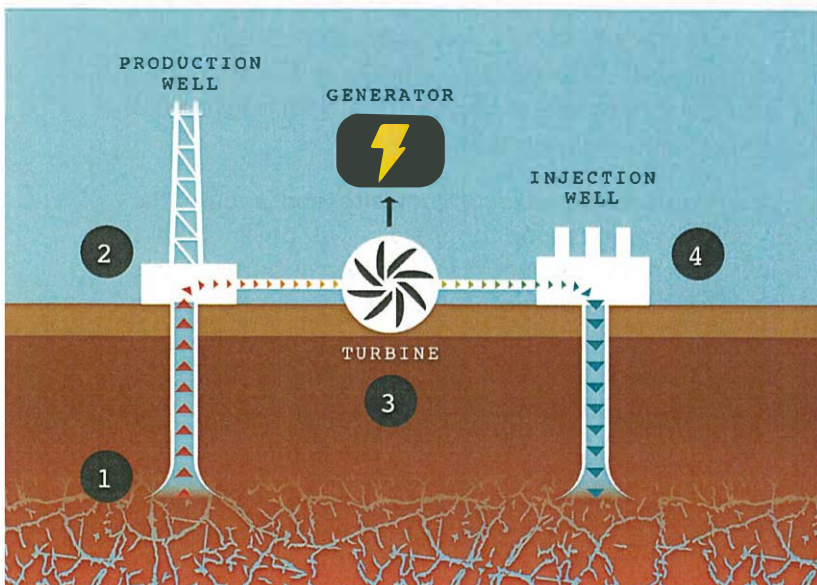
- 1 Hot rock heats naturally-occurring underground brine (hot, mineral-contaminated, salty water that you cannot drink) deep below the surface and deep below the groundwater table.
- 2 A production well brings that hot fluid to the surface.
- 3 The heat from the brine is used to generate electricity through a binary cycle system.
- 4 The cooled brine is returned underground through an injection well, recharging the reservoir.
- 5 The process is non-consumptive and non-extractive. This cycle continues, day after day, for decades.



Lightning Dock Geothermal Power Plant

Zanskar acquired the Lightning Dock Geothermal Power Plant in 2024. Under the previous owners, the plant was underperforming, and it no longer produced the power required to stay operational long-term. Zanskar used our technology to study the geothermal resource below the plant and get a clear picture of a deeper, hotter geothermal resource that could re-power the plant. With that knowledge, we drilled a new geothermal well and brought the plant back to about 15 megawatts of capacity, which is enough around-the-clock power for thousands of homes.

Today, Lightning Dock is home to the most productive pumped geothermal well in the United States. The plant makes clean power for the grid, supports local jobs, and adds to Hidalgo County's tax base.





What's Next at Lightning Dock?

Zanskar is planning the next phase of development at Lightning Dock to produce more power from the site. The first step is additional exploratory drilling to better understand if the geothermal resource can support an expansion of Zanskar's existing operations.

What do you plan to do?

In the near term, we plan to conduct an **exploratory drilling campaign** to learn more about the resource. What we find will guide our next steps: we may expand our existing power plant, or build a second plant on the same land. Any further development would take place on land we already own, have existing agreements on, or secure in the future, and would require additional permits after this phase of drilling. We did not acquire any new land in Hidalgo County in the recent BLM lease sale.

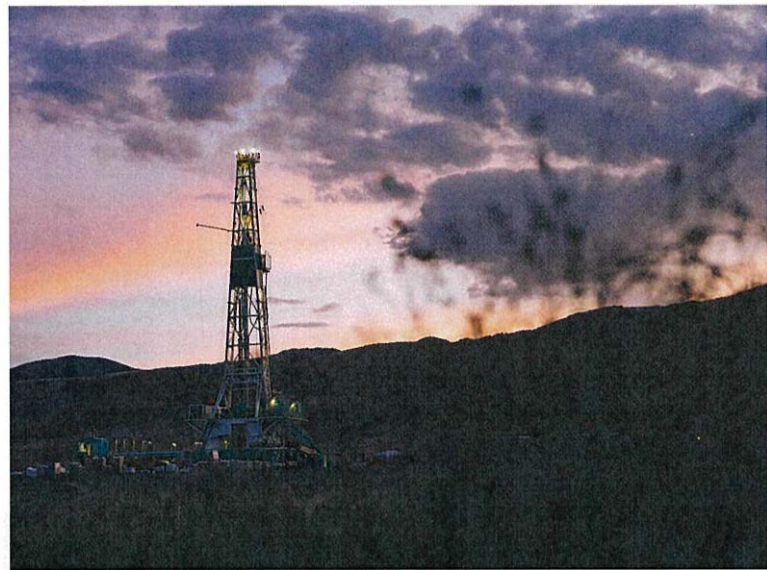
Who owns the geothermal resource?

The geothermal resource is owned by the Bureau of Land Management (BLM). The BLM issues permits for all drilling of these geothermal resources, which we lease from them. Through this process, a portion of royalties from any revenue generated from the resource are paid to Hidalgo County. **The BLM has permitted all existing wells in the Lightning Dock well field and is currently reviewing a permit for a new exploration well.**

Who protects groundwater, and how?

New Mexico's Energy Conservation and Management Division (ECAM) reviews and permits all drilling to

protect the geothermal resource and works with the Office of the State Engineer to protect surface water and groundwater. All of our geothermal wells extract geothermal brine (not drinking water) from thousands of feet below the groundwater table (the source that provides freshwater to the community). Each geothermal well is cased in steel and cement, **which prevents the geothermal well from interfering with the community's fresh water.**



Who is Zanskar?

Zanskar is an American geothermal exploration and development company headquartered in Salt Lake City, Utah. We produce clean power from geothermal heat, which is a naturally-occurring resource found deep beneath the Earth's surface. Geothermal provides **clean, reliable power** because this heat is a constant source of energy, allowing for power production around the clock, every day, for decades.

Most of these geothermal resources are "blind," meaning they give off no signs at the surface in the form of hot springs or geysers. For this reason, they

have remained hidden and undeveloped until now. Zanskar uses field geology, modern geoscience, and artificial intelligence to locate these hidden resources and drill into them accurately.

After we find a viable project site and secure the required permits and approvals, we design, build, own, and run the power plant ourselves. **Our projects have small land footprints, will generate clean power, and create jobs for decades to come.** On every project, we work directly with local residents, landowners, and officials.