

G²

Gradient Geothermal



Fossil to Future

Geothermal Energy from Existing Fluid Production

Gradient Geothermal

Executive Summary:

- Geothermal Energy is Essential to Global Renewable Energy Mix
- Recent Global Trends have brought Geothermal Energy to the forefront of the Global Renewable Energy Conversation
- Gradient's mobile, modular geothermal system can provide power, cooling, emissions reduction to a variety of well sites and facilities
- Looking to close \$1.2M of \$3M Seed Round



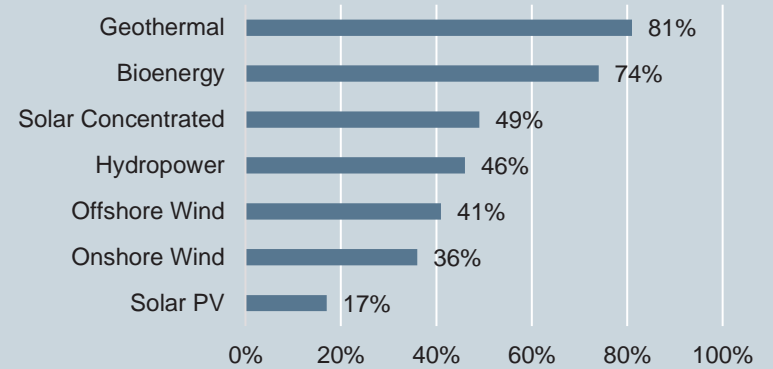
First Installation

Why Geothermal

Geothermal Energy Advantages:

- **Baseload**
- Small Footprint
- Flexibility: Electricity, Heat, Cooling
- Security

Capacity Factor (% Continuous Max Output)

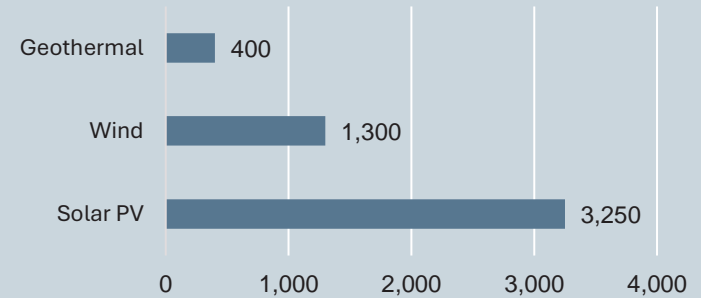


Why Geothermal

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Footprint Area vs. Power Output
(m²/GWh)

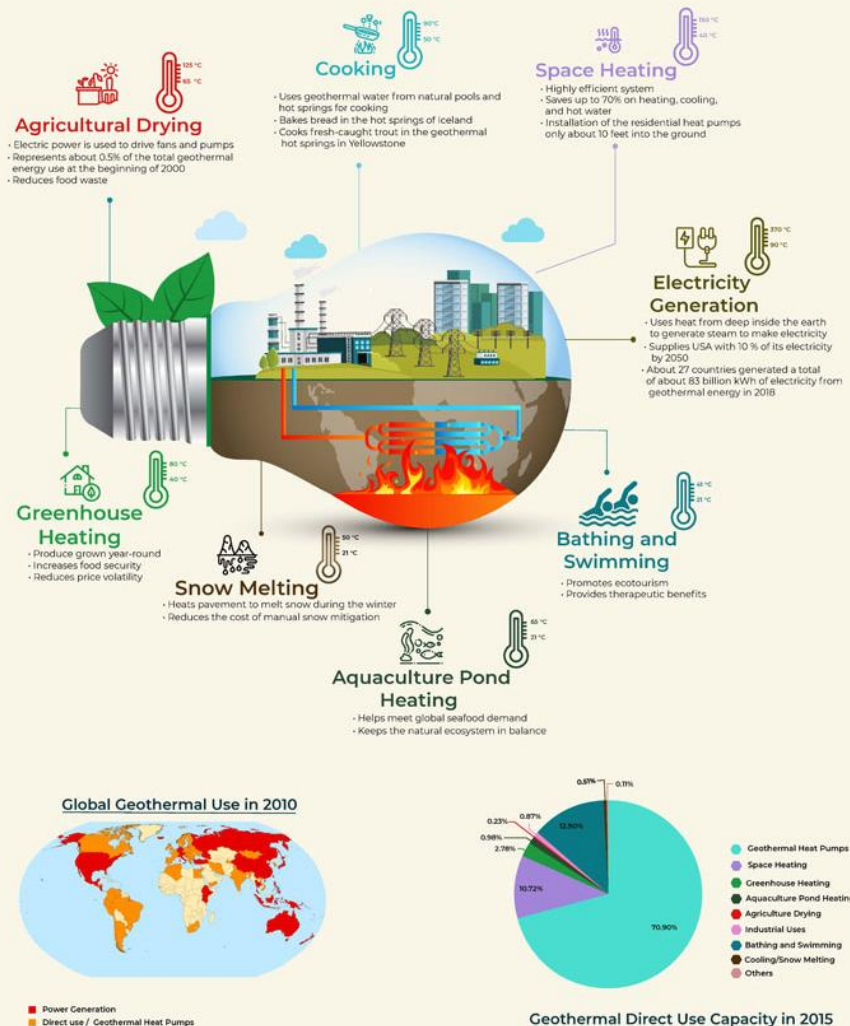


Source: Comparison of Land Footprint for Various Electricity Generation Technologies, USDOE, 2019

Why Geothermal

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Why Geothermal

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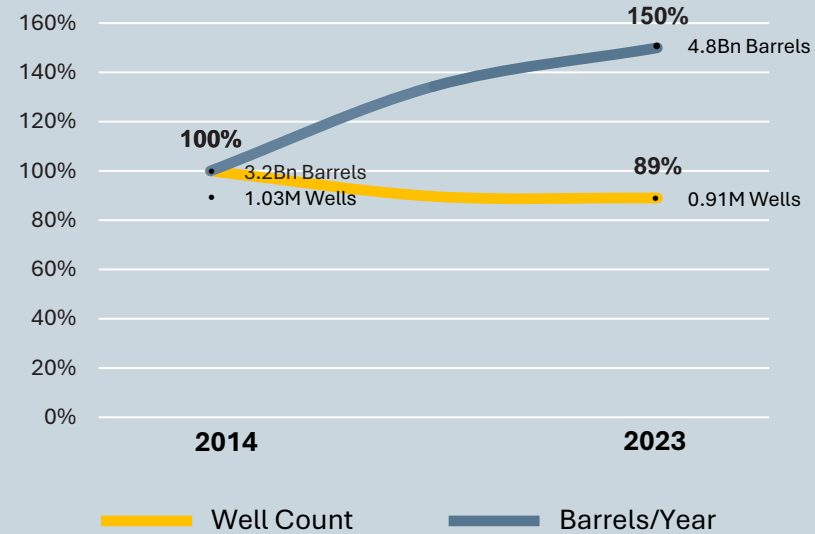
Source: USAF Joint Base San Antonio Texas

Why Now

2025 Global Trends Affecting Geothermal Energy:

- **Drilling Technology Advancements**
- European Energy Security
- Data Center Power/Cooling Needs

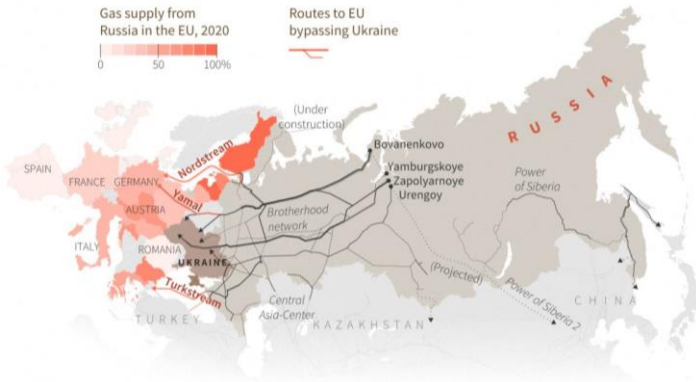
Well Count vs. Barrels Per Year



Why Now

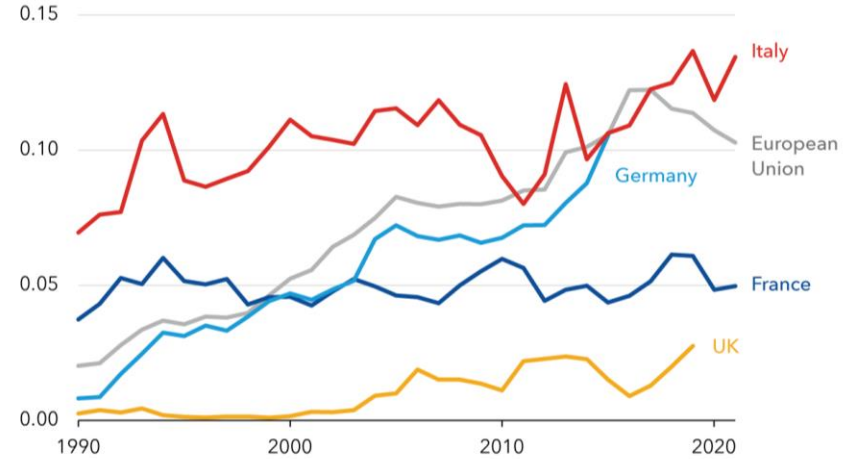
2025 Global Trends Affecting Geothermal Energy:

- Drilling Technology Advancements
- **European Energy Security**
- Data Center Power/Cooling Needs



Europe: Energy supply insecurity index

(1=100 percent; higher score = less energy secure)



Sources: Eurostat and IMF staff calculations.

Notes: The chart shows the composite energy supply insecurity index of Cohen, Joutz, and Loungani (2011), which combines energy import dependence with energy import diversification. The index is modified to give European countries zero risk-weight and other countries unit risk-weight.

Why Now

2025 Global Trends Affecting Geothermal Energy:

- Drilling Technology Advancements
- European Energy Security
- **Data Center Power/Cooling Needs**

EPRI U.S. Data Center Load Projections

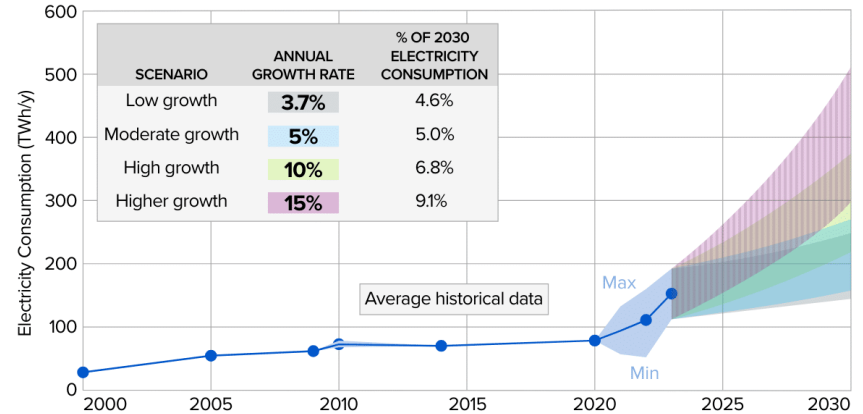


Figure ES-1. Projections of potential electricity consumption by U.S. data centers: 2023–2030. % of 2030 electricity consumption projections assume that all other (non-data center) load increases at 1% annually.

Gradient Geothermal Solution

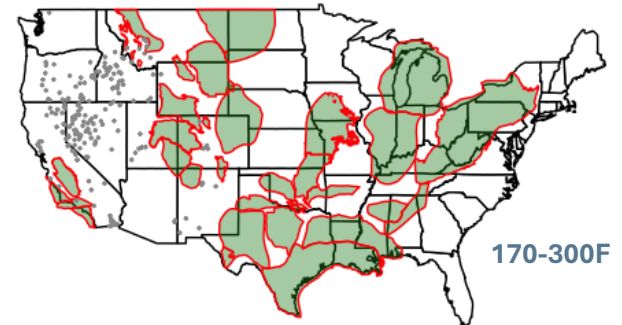
Focus on Existing Produced Fluids:

- **Lower Temperature** (Widen Geographic Reach)
- Lower Cost (No Exploration/Drilling)
- Flexible power supply (Electricity, Cool, Heat)

Current High- and Medium-Temperature Geothermal Project Locations
Geothermal Sites (USGS)



Available Low-Temperature Geothermal Project Locations
Available Geothermal Resources

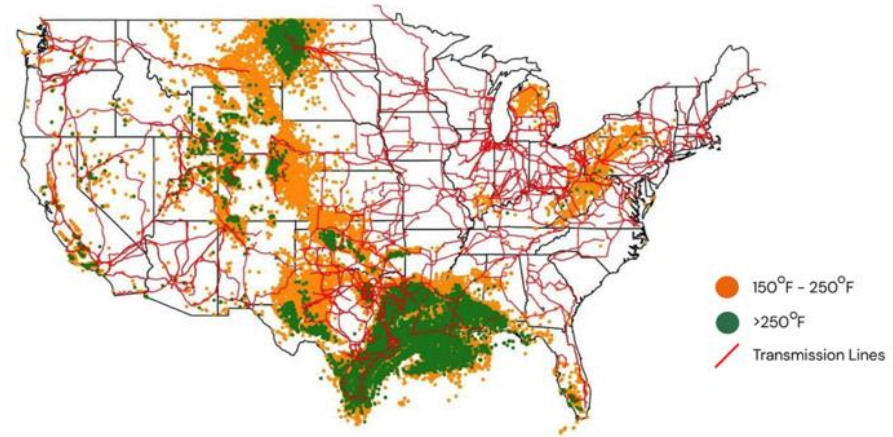


Gradient Geothermal Solution

Focus on Existing Produced Fluids:

- Lower Temperature (Widen Geographic Reach)
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Map of US Well Sites by Temperature



Energy from Oil and Gas Wells:

- 500,000+ Applicable Wells
- 13 GW of power potential
- 18.2 Million Tons CO₂ Emissions Avoided

Gradient Geothermal Solution

Focus on Existing Produced Fluids:

- Lower Temperature (Widen Geographic Reach)
- Lower Cost (No Exploration/Drilling)
- **Flexible Power Supply** (Electricity, Cool, Heat)

Electricity
Pine Valley, NV



Fluid Cooling
Williston Basin, ND



Thermal Energy Network
Pierce, CO



Gradient Geothermal Example

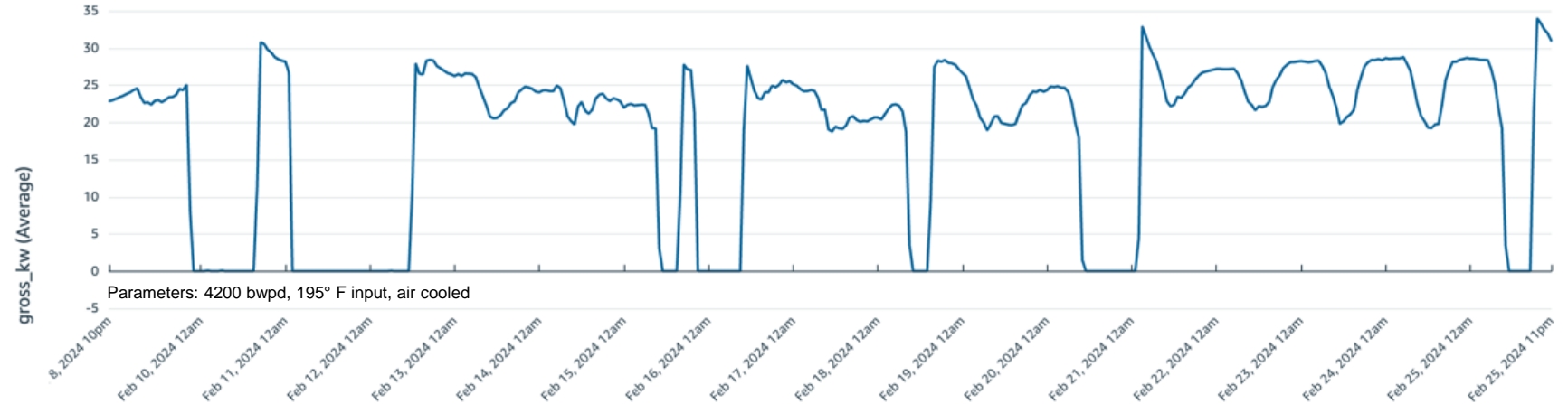
Case Study: Power Generation from Long-Term Stable Produced Fluids

- DOE Wells of Opportunity-funded project
- Pathway to 1 MW at existing oilfield
- Four season operations
- Grid-tied



Gross Electrical Production (kW)

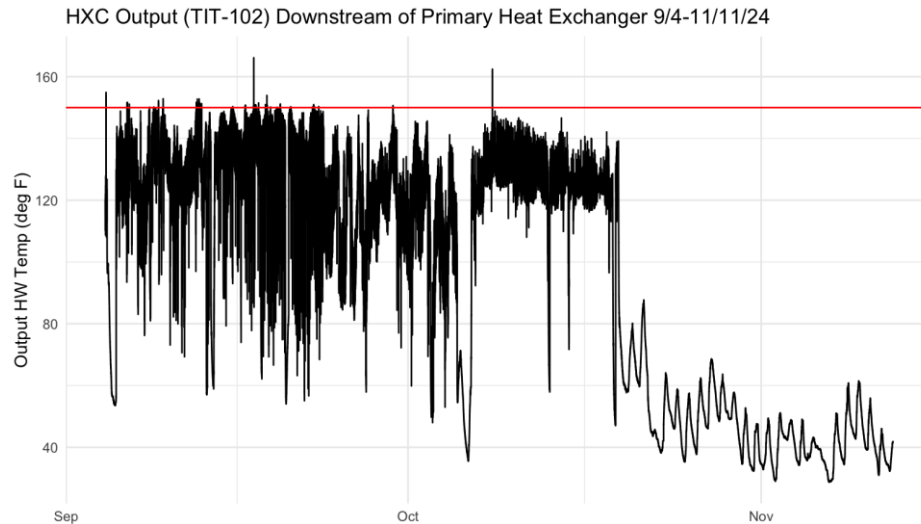
SHOWING TOP 10000 IN DATE



Gradient Geothermal Example

Case Study: Cooling Produced Fluids on Liquid Flowback

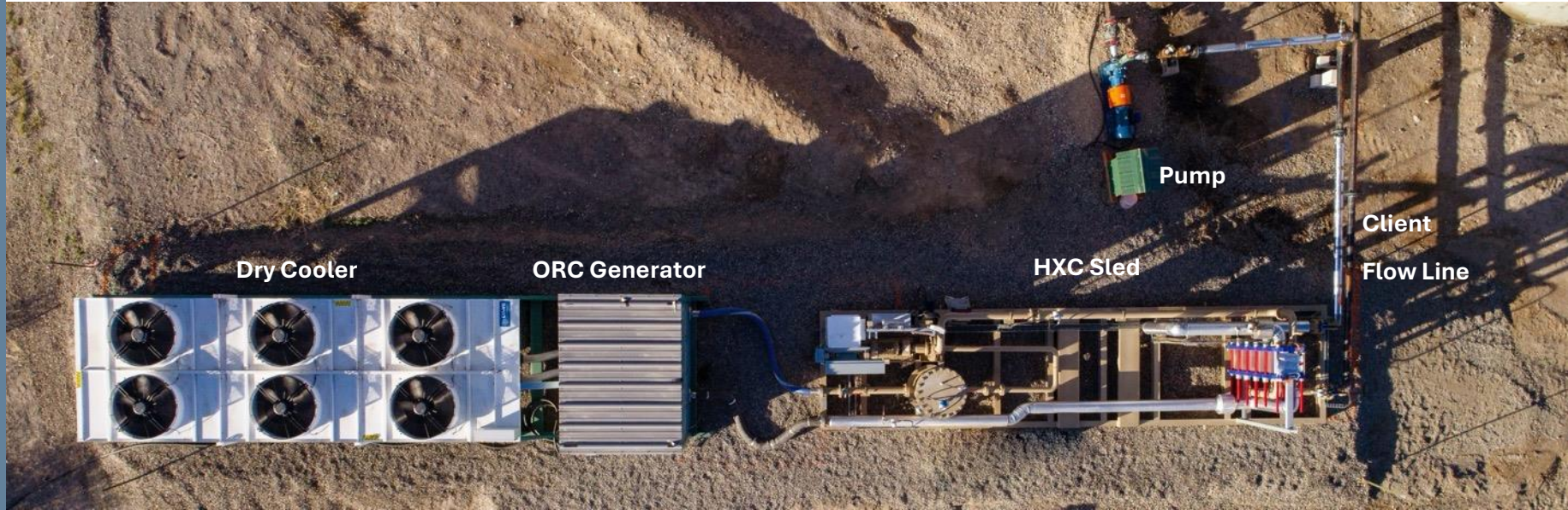
- Cooling produced fluids on liquids flowback from a new pad turn-on
- Met 150° F cooling spec 99.3% of time
- Modular layout for following completions crew to where cooling is needed across asset



Gradient Geothermal Technology

Low Temperature Power Generation:

- ORC/HXC Sled
- Web/IP

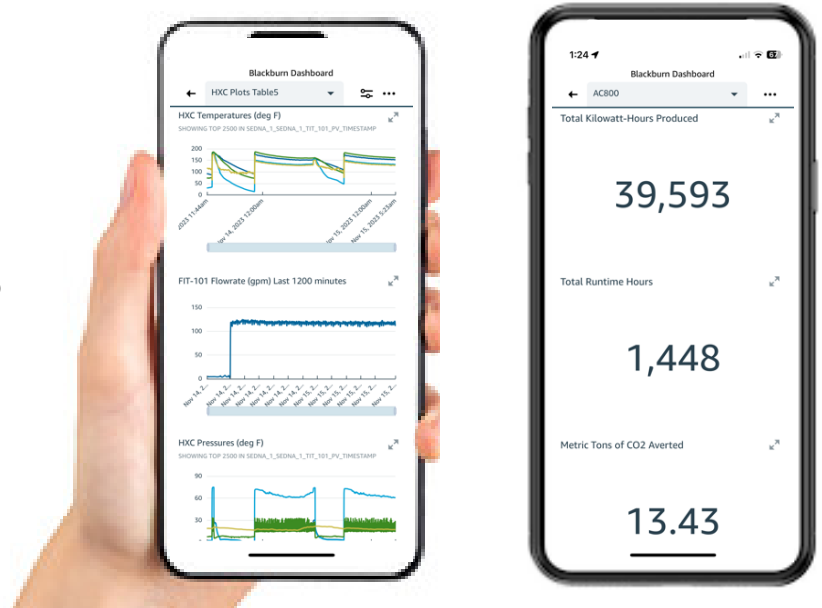




Gradient Geothermal Technology

Low Temperature Power Generation:

- ORC/HXC Sled
- **Web/IP**
- **Event-drive Operational Alert System:** Real-time text and email alerts. Website and mobile executive and operational dashboards with real-time data from cloud-based database
- **Wellfinder Web App** (v1.0) Develop an integrated software tool to help easily locate and evaluate oil and gas wells and facilities for geothermal potential.
- **HXC Sled** (3 patents filed April 2022) Heat exchanger sled that allows ORC equipment to work in the oilfield. V2 modifications and enhancements in design phase now
- **Downhole Heat Exchanger** (Patent filed July 2024) Proprietary technique to preserve geothermal heat to surface. Advanced modeling of heat loss in surface facilities and mitigations schemes



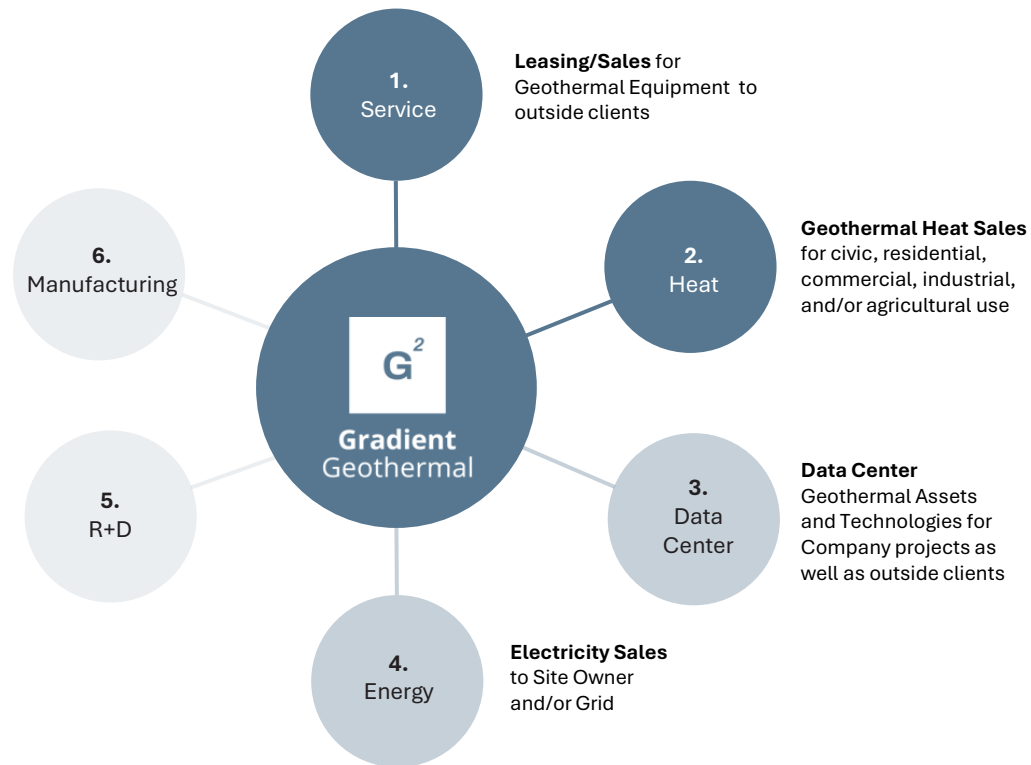
Gradient Geothermal Business Model

Revenue Streams:

- Service
- Heat Sales
- Data Center
- Energy Sales
- R+D
- Manufacturing

Manufacturing of ORC geothermal equipment to keep profit margins in house as well as benefit from additional sales

Research and Development of ORC geothermal equipment to create best in class technology



Gradient Geothermal Business Model

Lease/Sales Markets:

- Oil and Gas Production
- EGS/AGS Vendors
- Geothermal District Heating
- Data Center Cooling

Advanced Geothermal System
Sage Geosystems,
Fort Bliss, El Paso



Electricity Production for Geothermal District Heating
Paris, France

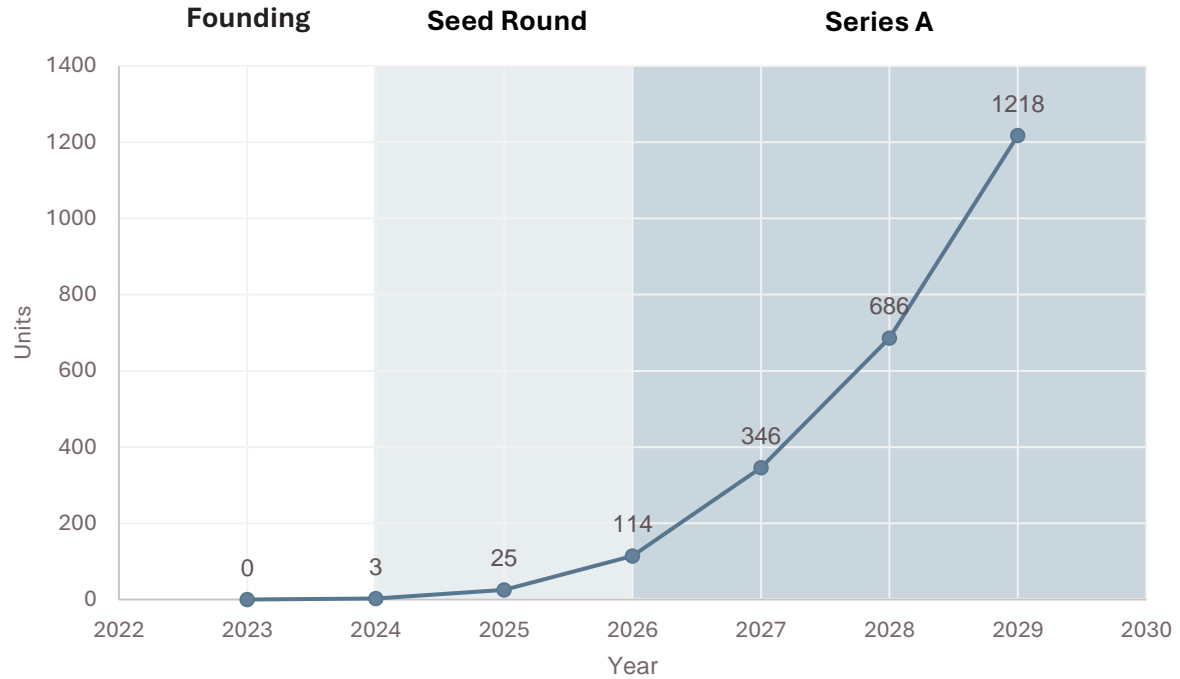


Data Center Power/Cooling
Google/Fervo, USA



Gradient Geothermal Business Model

Unit Forecast:

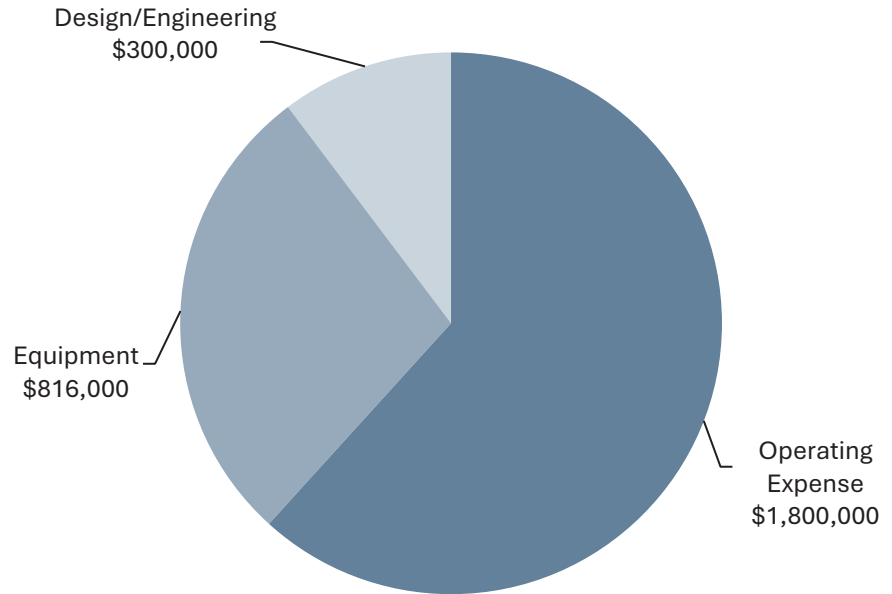


Gradient Geothermal Investment

Seed Round:

- \$3.0M Total
- \$1.8M Raised
- \$1.2M Outstanding
- Series A in Q4 2025

2025 Seed Raise Use of Proceeds





Gradient Geothermal

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