



THERMAL
ENERGY PARTNERS

Our Markets

Critical Infrastructure

Industrial

Municipalities

Federal & DoD Facilities

Oil & Gas

Healthcare

TEP provides Geothermal power services across multiple markets. We service Federal, Healthcare, Oil & Gas, Infrastructure, and Industrial market sector clients who rely on TEP to develop innovative and cost-effective solutions to meet their operational and strategic goals.



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Geothermal Power Services



Proven. Research demonstrates that, of all the renewable sources of energy being explored, geothermal is the most promising. TEPs model is not the classical geothermal developed from geographically limited hot springs and geyser areas; instead it is derived from hot fluids within permeable sediments found nearly world-wide where the natural heat flow from Earth's interior has heated these in situ fluids to temperatures above 225 degrees F.



Advanced. Advancements in drilling and heat-to-energy conversion technologies have made the development of geothermal energy from deep sources economically possible. These advancements grew out of the petroleum industry's improvements in horizontal drilling and formation improvement methodologies that significantly reduced the cost of deep well drilling and renovation of deep wells for thermal energy production.



Efficient. Because of the high cost associated with operating and maintaining deep wells, it simply was not cost competitive for geothermal energy to be produced from deep, hot formations. However, new drilling technology and substantial improvements in the conversion of thermal energy to electrical energy using binary heat exchange systems have made the generation of electrical energy more practical and predictable.

Ready. Our in-house expertise in geological exploration, policy development, financing, and drilling services offer clients the needed steps to take projects to commercial realization.

Reliable. Our reliable approach focuses on deep sedimentary basins where heat from the earth's interior contains fluid that is more widely distributed than geothermal hot-spots related to magmatic intrusions.

Resilient. Onsite Power. From resource assessment to electricity production and operations, we produce energy from geothermal resources for a more stable future for our clients.

TEP GEOTHERMAL PROCESS

TEP's model utilizes Deep Sedimentary Basins with our proprietary database of geothermal resources. The TEP engineering process leverages resource reservoirs to emulate the characteristics of today's commercial hydrothermal systems. Through this process TEP can circulate fluids for a long period of time and generate the heat flow required for reliable base-load power. Thermal Energy Partners leverages these advantages to guarantee success in production geothermal electricity.

GEOTHERMAL POWER FORWARD

Project Development with a Purpose

- Project initiation and structuring
- Securing License and concession
- Negotiating Permits and Mineral right owners
- Seek and negotiate PPA (Power Purchase Agreement)
- Initial power plant design
- Negotiate and secure EPC Contract (Engineering Procurement Construction)
- Coordinate with local governments and regulators
- Choose and negotiate with O & M suppliers

Project Financing

- Arrange Financial support, Financial structuring & modeling
- Negotiate loans and investment from financial institutions
- Secure and negotiate development phase financing and then term/permanent financing
- Secure and negotiate Exploration risk insurance
- Compliance with financial covenants

Reservoir and Testing

- Production testing (safety, flow measurements, deliverability, wellhead power available)
- Injection well testing and evaluation
- Decline analysis
- Evaluation of cased hole problems and development of work over program

Engineering and Management

- Well design
- Prepare drilling and remedial programs
- Prepare cost estimates
- Prepare permits and interface with regulatory agencies
- Supervise well completion
- Develop programs for reducing costs
- Assist clients in selecting vendors
- Selection of supervisors and consultants
- Maintain appropriate well records, review daily reports, and supply well history reports

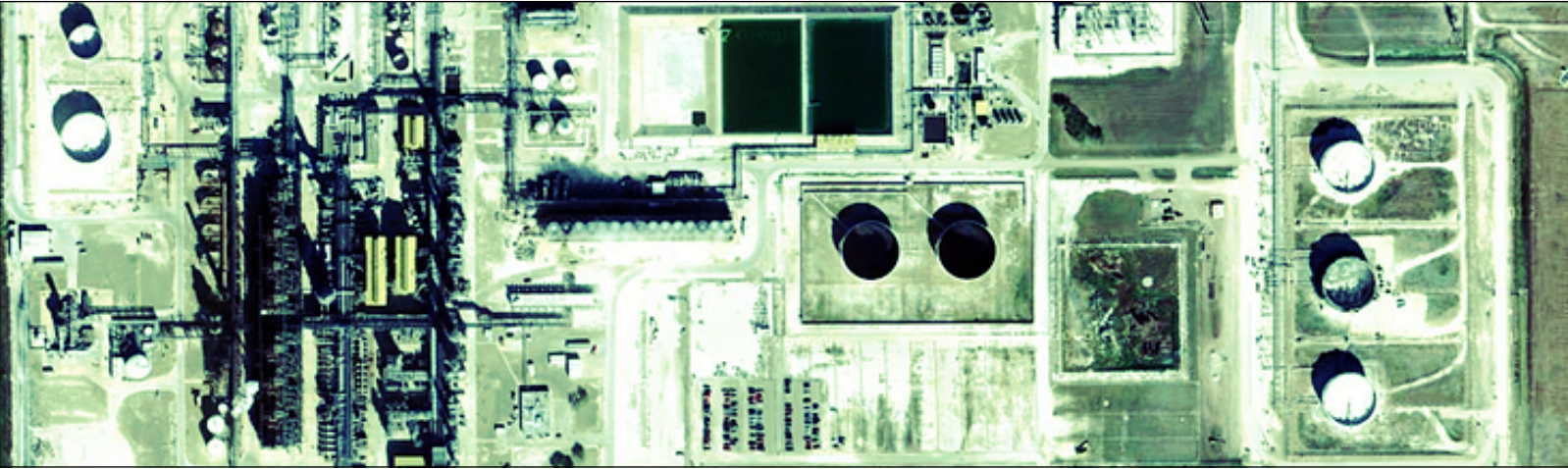
Logistics and Procurement

- Inventory control, Purchasing and Audit
- Logistics and transportation
- Purchasing and transactions
- Accounts payable and accounts receivable

Our Process

RENEWABLE BASE-LOAD POWER

At Thermal Energy Partners we have the vision to find new and emerging geothermal energy opportunities and the discipline to develop them safely, quickly and profitably.

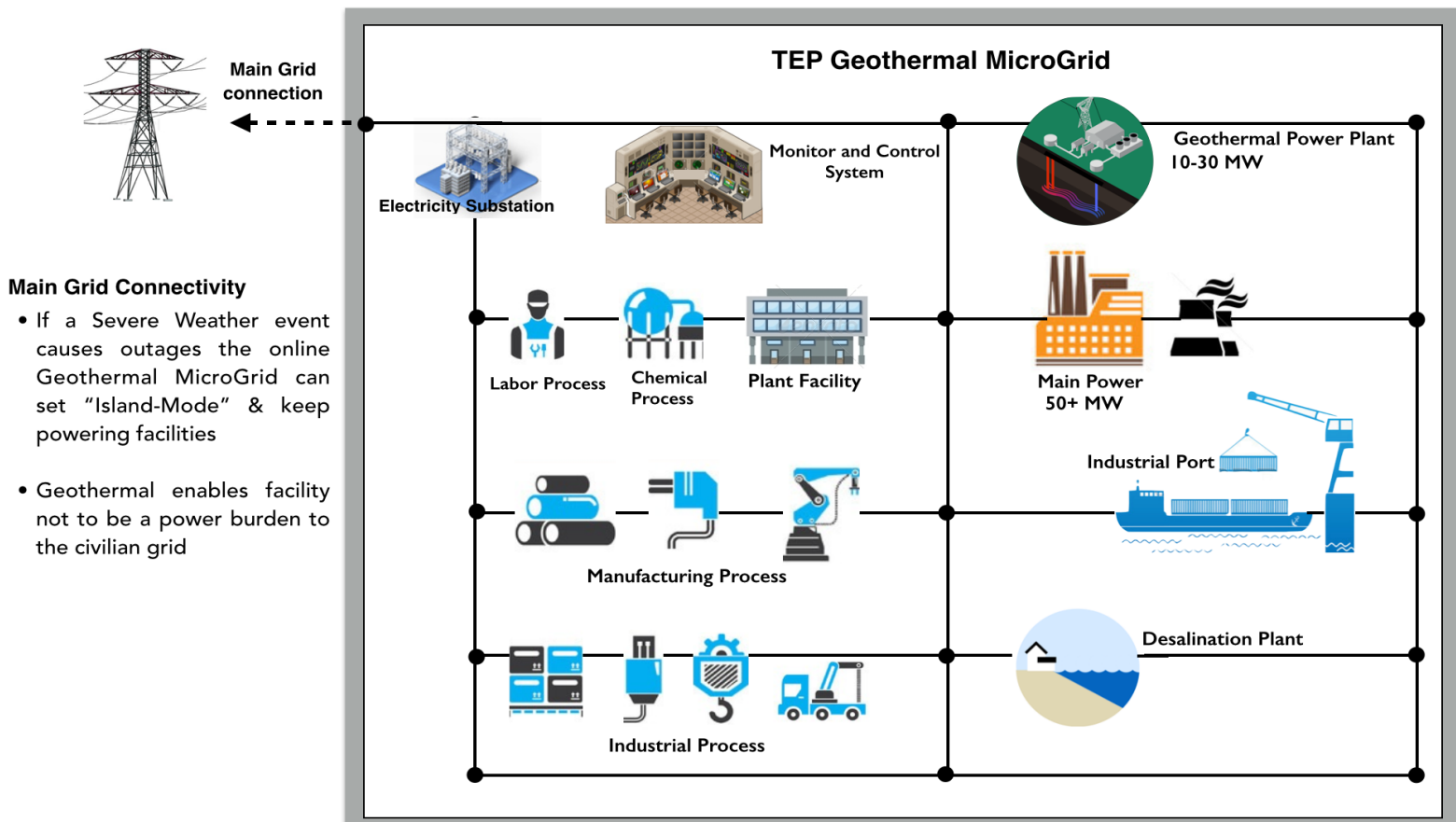


With growing demands for reliable power, large facilities are looking for more efficient ways to maintain operations without interruption and safety management has become the leading priority. Incidents caused by power failures not only result in loss in production, but can also lead to fatalities.

Thermal Energy Partners Geothermal MicroGrid (TGM)

TEP's Geothermal MicroGrid (TGM) is a distributed renewable energy system consisting of demand management, storage, and generation and provides facilities with loads capable of operating in parallel with, or independently from, the main power grid. The primary purpose is to ensure local, reliable, and affordable energy security for commercial, industrial, and federal government consumers.

TEP Geothermal MicroGrid - *for Industrial Facilities*



Financial Benefits

- No Fuel Cost - Geothermal Power is not exposed to Natural Gas Price Volatility
- Limited land required

Geothermal Power Performance Benefits

- Fixed Price for life of contract
- 24 x 365 availability - Not intermittent



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