

PROJECT: GROUNDFORCE ENERGY

Executive Summary – Advanced Geothermal Patent Acquisition Opportunity

Overview

Project GroundForce Energy is offering a portfolio of patented technologies that enable next-generation geothermal power production. This portfolio comprises of four patent families and 11 unique patents representing foundational innovations in Advanced Geothermal Systems (AGS). Filed with a **first-to-file priority date of August 2021**, these patents **establish an early and defensible position in one of the fastest-growing segments of clean energy technology**. The portfolio focuses on four key domains critical to AGS efficiency and scalability:

1. **Advanced Geothermal Well Construction To Make A Geothermal Heat-Exchanger In A Heterogeneous Geothermal Reservoir** – Combines precision geothermal targeting and well placement, increase in effective geothermal well radius, enhanced-contact well design, and optional embedded heat storage, delivering greater power density and consistency in continuous power generation, longer system life, and lower per-megawatt costs than legacy geothermal wells.
2. **Integrated Thermal Power Plants Strategically Positioned** - Systems for generating electricity via integrated thermal power plants positioned fully or partially inside the geothermal wells, at wellheads, above wellheads, or on pads to minimize thermal energy loss and facilitate On-Site power generation.
3. **Thermal Systems For Generating Electricity Utilizing Predetermined Working Fluids-** A method to design and select the proper primary and secondary working fluids based on the downhole temperature and conditions regardless of the depth of geothermal well. And innovative methods for converting low to medium temperature heat from a formation into electricity using specialized working fluids to maximize thermal efficiency and isolate working fluids from contact with formation, enabling stable, long-term thermal performance and protecting geological integrity.
4. **Pressure Manipulation Of Primary Fluid for Enhanced Performance** - Processes and systems for enhanced electricity generation by increasing pressure on primary working fluid to manipulate its thermodynamic status, raise boiling point and temperature while decreasing latent heat.

The Generational Opportunity For Buyers

This is a rare opportunity to acquire a first-mover AGS patent portfolio that directly addresses the core engineering and economic barriers to global geothermal adoption. The portfolio is available for acquisition, offering immediate IP leverage to energy developers, technology investors, and

infrastructure operators seeking to lead in the next generation of geothermal innovation.

Global demand for reliable, carbon-free energy is accelerating. The geothermal sector CAPEX is projected to exceed **\$100 - \$150 billion by 2030**, driven by grid stability needs, massive generational opportunity driven by data centre build out and incentives for renewable base-load power. Global Data Centre Capex alone is expected to exceed **\$4 Trillion over the next 5 years**.

The transition toward 24/7 carbon-free power—driven by data centres, industrial operations, and utility base-load demand—has positioned Advanced Geothermal Systems as a pivotal clean energy solution. AGS technologies can unlock global geothermal potential far beyond traditional hydrothermal zones. These patent families address core challenges in AGS development, forming a technology platform that can accelerate commercial deployment and reduce project risk.

Project GroundForce Energy's patent portfolio directly tackles these obstacles, offering buyers **the rights and the freedom to practice** in a path to lower-cost, scalable, and globally deployable geothermal systems.

These innovations are protected by a series of issued and pending patents in North America and international markets. All of our patents have been registered under the **First To File Priority date of August 2021**.

Strategic Advantages

- **Early IP Positioning:** First-to-file status (August 2021) provides priority and defensibility during a surge in geothermal patent activity post-2022.
- **Comprehensive Coverage:** 11 patents spanning subsurface and surface system design - a holistic approach to geothermal development.
- **Cross-System Compatibility:** Adaptable to closed-loop, open-loop, Enhanced Geothermal (EGS) configurations and advanced Geothermal (AGS) configurations.
- **High ESG Value:** Enables consistent, continuous, emission-free power aligned with corporate net-zero commitments.
- **Own The Power:** Unlimited power behind the fence and behind the meter.

Next Steps

GroundForce Energy invites qualified buyers, investors, and operators to review detailed technical data (NDA is not required) and explore collaboration opportunities. Next appointments open effective immediately, reply directly or visit www.groundforceenergy.com

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