

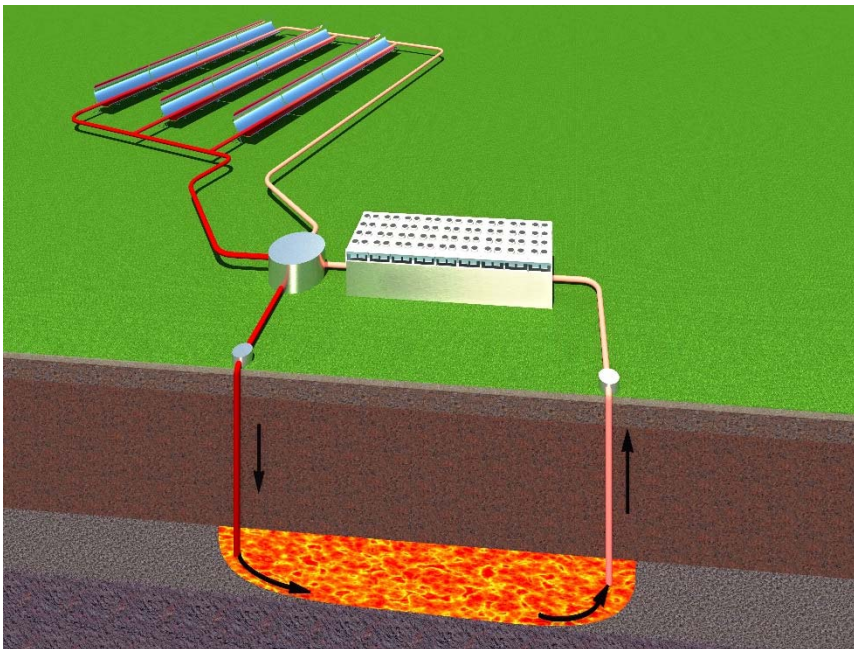
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RenewGeo is the innovative technology of collecting solar energy in the form of heat and injecting this heat into the ground to create a synthetic geothermal resource. The stored heat creates a thermal battery that can be tapped and transformed into carbon free baseload electricity anytime. UC-Won has built an experienced team of engineers, geologists, and experts in geothermal plant operation to execute proprietary technology to create a utility scale, carbon free source of electricity to displace the fossil fueled and outdated legacy grid.

Background

The problem to solve is clear: the storage of energy. There is enough solar energy placed on the earth on a daily basis to supply all our power needs, yet traditional solar technologies fail at capturing and storing it effectively. Our technology, resolves this by collecting solar thermal energy during the day and storing the heat in the ground to create carbon free RenewGeo baseload power which is available 24/7.

Technology



RenewGeo technology is about creating a synthetic geothermal storage resource by heating a natural brine with solar energy and adding enough heat when the sun shines to generate power 24 hours a day.

The idea of injecting thermal energy into the ground to create a synthetic geothermal resource has its origins in proven techniques developed in the oil and geothermal industries.

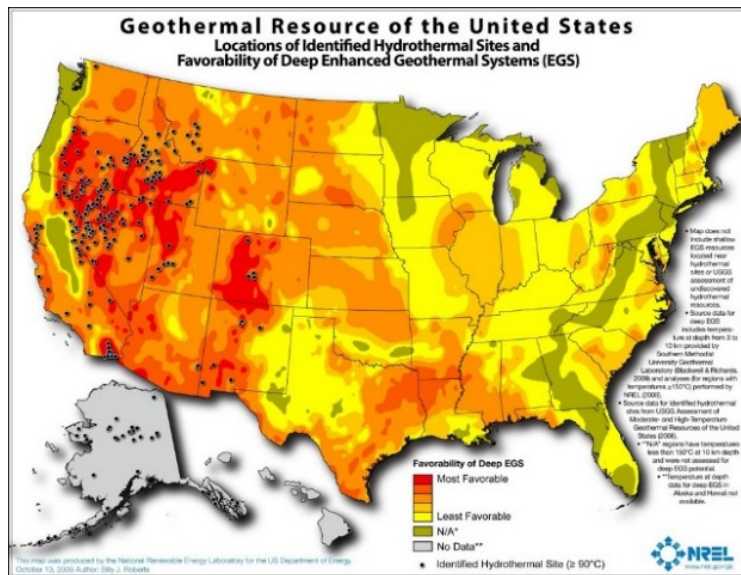
In 1907, thermal injection for oil stimulation started in California when fluid was heated by burning natural gas and reinjected into the oilfield as a means of improving production as one

of the first attempts at enhanced oil recovery. Starting in 1957, Atlantic Richfield began using solar as a thermal energy source in California to replace burning natural gas. In the 1970s, research into the use CO₂ injection into the wells to enhance recovery led to better modeling techniques and understanding of flow from injection to production wells.

The history of geothermal exploration and development in the US has been built around finding easily accessible (close to the surface) high temperature resources. Exploration holes were drilled, and many geothermal wells were abandoned because they failed to produce enough heat in a consistent manner that could create a commercially viable electric generation project.

The strength of RenewGeo is to apply innovative techniques to use these existing wells and avoid the typical risks associated with exploration drilling. In addition, existing oil and gas wells can be re-purposed for a new life as heat

storage batteries. By creating a synthetic resource of heat, uncertainty is removed from the evaluation of potential sites.



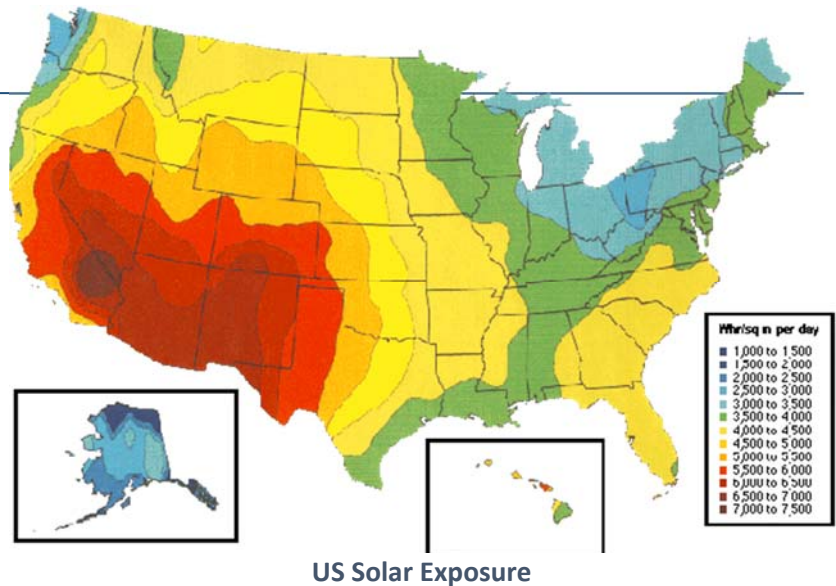
The renewable thermal storage approach will connect what we know from the oil industry regarding flow with what we have learned in geothermal EGS trials regarding storage. We remove the typical geothermal gamble that the ground will naturally heat fluid to the temperature needed by actively heating the synthetic geothermal resource. Any heat added by nature further optimizes the thermal to electricity conversion process.

With this technology, we can look at existing resources as new opportunities. With certain geological conditions and an abundance of solar, this technology can be deployed in many more locations than traditional geothermal. This would

include idle oil or gas fields that have demonstrated the right geology in many parts of the world including Europe, North Africa, and the Middle East; and any existing formation with certain geological conditions and an abundance of solar in for power production or direct (district) use as demonstrated with use of shallow aquifers in parts of Europe.

Pilot Plant

In the world of geothermal energy, many technologies are emerging to create carbon free, baseload power. RenewGeo is unique as the leading innovator in the area of solar thermal storage.¹ We have acquired the rights to the most relevant existing intellectual property, created additional patents, assembled the team necessary to develop a plant, and acquired existing wells on 3,500 acres in Northern Nevada that meet our geological requirements. We have obtained funding to begin testing and we plan to start once final permits are issued. Our goal is to build a 1.5 MW pilot plant and sell directly to data centers with firm agreements. We have secured an order with the Nevada Public Utility Commission to produce and sell power immediately while meeting all regulatory requirements. Please consider becoming an ambassador for new geothermal technologies as RenewGeo works to serve the future of energy.



1. (https://en.wikipedia.org/wiki/Solar_augmented_geothermal_energy) (Accessed May 2021)

More Information

To find out more, contact Mark Hauenstein, markh@uc-won.com; or visit www.renewgeo.com