Google Cloud, Project Innerspace and SLB Collaborate to Accelerate Global Geothermal Energy Adoption

Geothermal energy has the capacity to power the world's energy demands 140X over, with the added benefit of being a clean firm power source

SUNNYVALE, Calif., March 6, 2025 /PRNewswire/ -- Google Cloud today announced a collaboration with SLB and Project Innerspace to drive the adoption of global geothermal energy. This new collaboration will combine the extensive geothermal data set from Project Innerspace's innovative GeoMap, with the expertise of SLB's GeothermEx's geothermal consulting services, in order to accelerate the identification and development of geothermal resources globally.

Energy demand is increasing, driven by economic growth and industrialization. A recent IEA report, produced in partnership with Project Innerspace, indicates that geothermal energy has the potential to meet global electricity demands 140 times over, second only to solar photovoltaic among clean energy technologies. This collaboration of established energy technology companies such as SLB, and organizations like Project Innerspace, will provide insightful information about geothermal potential to a variety of ecosystem stakeholders.

"SLB's deep geothermal expertise, combined with Project InnerSpace's advanced visualization and analysis, can significantly accelerate the development of geothermal assets worldwide," said Irlan Amir, vice president, Renewables and Energy Efficiency at SLB. "This synergy empowers industry players to leverage the available data and SLB's GeothermEx team's expertise to rapidly assess project viability and drive faster deployment of this critical clean and firm energy source."

"A central component of our theory of systemic change at Project Innerspace is the conviction that leveraging the technologies, capabilities, speed, and scale of the oil and gas industry is necessary to grow geothermal into a thriving global powerhouse. Indeed, should the oil and gas industry engage in geothermal at scale, it would be transformational for global economic growth, stability, and prosperity," said Jamie Beard, executive director, Project Innerspace. "It is our ambition as we build on this collaboration that we shift the massive potential of geothermal from the abstract into high impact reality. It's time to get boots on the ground."

The tool in use throughout the collaboration – GeoMap – was developed by Project Innerspace with the support of a global team of more than 100 researchers and scientists, and is hosted on Google Earth Engine. The tool also leverages Google Cloud's scalable infrastructure, BigQuery and Vertex AI. GeoMap integrates diverse datasets, allowing users to visualize and analyze geothermal potential across different regions, effectively pinpointing promising locations for development. By combining Project Innerspace's mapping technology, SLB's geothermal expertise, and Google Cloud's powerful computing resources, the collaboration aims to simplify the process of identifying, developing, and deploying geothermal energy solutions globally.

"This collaboration paves the way for widespread geothermal deployment on a global scale and will help meet future energy needs," said Kyle Jessen, managing director, Energy Sector, Google Cloud. "By bringing Project Innerspace's GeoMap, built on Google Cloud's AI and data technologies, and SLB's expertise in geothermal energy, businesses will have access to the tools and experience needed to grow geothermal energy programs around the world."

This work builds on Google's leadership to support development of advanced geothermal technologies that can provide around the clock clean energy. In 2024 Google announced a new model to commercialize this technology in partnership with our electric utilities.

To learn more, businesses can register for a Google Cloud visit at CERAWeek, and keep up with the latest news on our newsroom and blog. Both SLB and Project Innerspace are members of the Google Cloud Ready Sustainability Ecosystem, to help companies meet sustainability goals while driving business transformation. For more information, please visit slb.com/geothermal and projectinnerspace.org for Innerspace.

About Google Cloud
Google Cloud is the new way to the cloud, providing AI, infrastructure, developer, data, security, and collaboration tools built for today and tomorrow. Google Cloud offers a powerful, fully integrated and optimized AI stack with its own planet-scale infrastructure, custom-built chips, generative AI models and development platform, as well as AI-powered applications, to help organizations transform. Customers in more than 200 countries and territories turn to Google Cloud as their trusted technology partner.

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