JRG | Energy

Quarterly Newsletter

September 2025

Welcome to our new edition of JRG Energy's Quarterly Newsletter

In this issue, we're excited to share our latest endeavors in advancing geothermal energy around the world.

JRG Energy is dedicated to delivering sustainable solutions tailored to optimise resources utilization and address end-user demand. Our approach integrates international multi-disciplinary expertise with in-country knowledge, aligned with local environmental, social, and regulatory frameworks through a collaborative development process.

Speak to us today about your next project and how a renewable solution could benefit your organization.

Project Highlights

Gran Canaria and JRG Energy Partner on Next Stage of Geothermal Development

Gran Canaria Geotermia S.L. has partnered with New Zealand-based JRG Energy to lead the technical coordination of a deep geothermal feasibility project in southeast Gran Canaria.

This initiative is part of Spain's Recovery, Transformation and Resilience Plan, supported by Next Generation EU funds. The Government of Spain has allocated €15 million to Gran Canaria, contributing to a €106.2 million program designed to advance ten geothermal research projects across the Canary Islands.

Advancing from Prospecting to Deep Exploration

Earlier this year, over thirty specialists from the Canary Islands Volcanological Institute (INVOLCAN) carried out geochemical, geophysical, and geological surveys to assess geothermal potential. The project now enters its next phase: deep exploration drilling, with three boreholes planned at depths of up to 2,700 meters to gather direct subsurface data.

JRG Energy's Role

Established in 2013, JRG Energy brings global expertise in geothermal drilling, well testing, project management, and reservoir modeling. For the Gran Canaria initiative, the company will:

- Oversee and coordinate drilling operations
- Ensure technical and regulatory compliance
- Provide planning, resource evaluation, and risk mitigation guidance
- Support the transition from exploration to potential production

JRG Energy Managing Director John Gilliland emphasized the significance of this collaboration:
"Building on our international experience, we look forward to assisting Gran Canaria. This work is vital to ensure the transition from exploration to production is carried out with best practices to help mitigate risks and deliver benefits for the island."

Toward a Sustainable Energy Future

This partnership marks a critical milestone for Gran Canaria, reinforcing geothermal energy's role as a renewable, sustainable, and reliable contributor to the island's long-term energy strategy.

Read More: Gran Canaria Project

Project Highlights

Celebrating Pablo Aguilera Bustos' Role in Advancing Geothermal Innovation in Colombia

We're proud to congratulate Dr. Pablo Aguilera Bustos, Geoscientist and Geothermal Specialist at JRG Energy, for completing the final activity of the Colombia–New Zealand Manaaki Alumni Initiative alongside the Embajada de Nueva Zelandia en Colombia. This milestone marks an inspiring step toward unlocking Nariño's geothermal potential.

Highlights from Pablo's visit:

- University Collaboration – Partnering with Universidad Cesmag to align geothermal initiatives with Nariño's development plan.
- Farmers' Training – Showcasing practical geothermal applications in Tajumbina, including soil heating and greenhouse systems to boost agriculture.
- Local Engagement – Meeting with the mayors of La Cruz and San Pablo to chart next steps for community-driven development.
- Nature & Purpose – Exploring the stunning Colombian Massif while advancing clean, sustainable energy solutions.

This initiative demonstrated the power of international collaboration and local knowledge in driving sustainable transformation.

The future of clean energy in Nariño is promising — and JRG Energy is honored to contribute to this journey.

Project Highlights

JRG Energy Awarded Feasibility Study for Deep Geothermal Project in Europe

A large European energy company has entrusted JRG Energy with a new feasibility study to assess the potential of deep geothermal resources in potential aquifers. The initiative aims to support the heating network of two towns with clean, renewable, and sustainable energy.

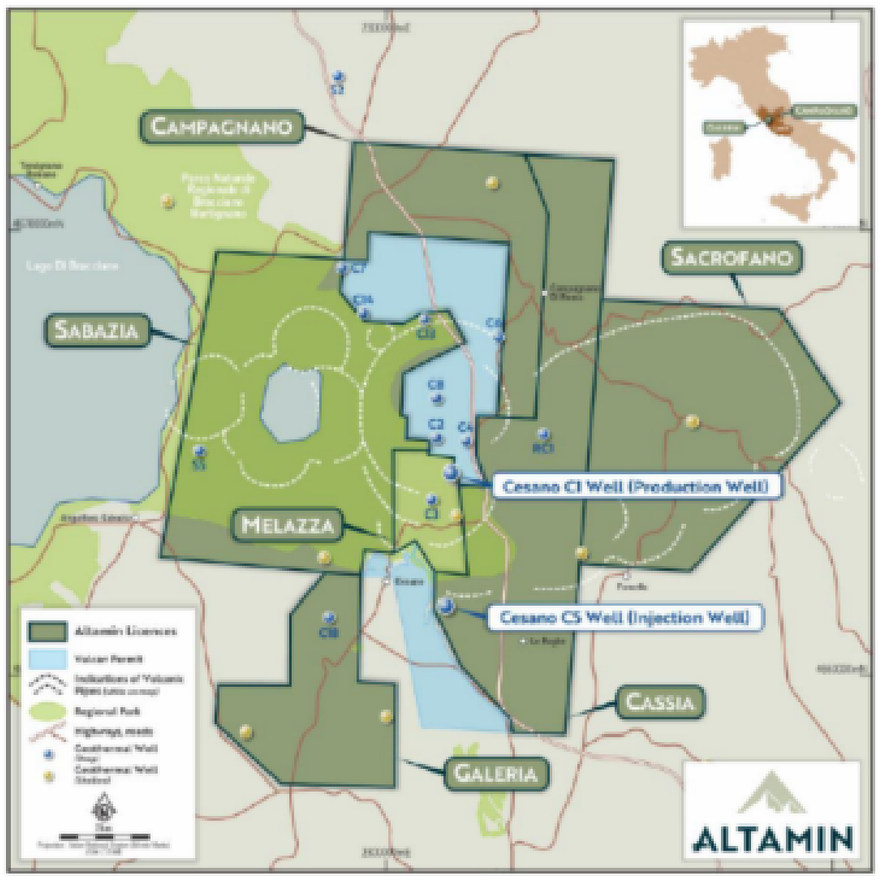
As part of this project, this energy company is examining the viability of installing multiple geothermal doublets into two potential aquifers. These assessments will determine the technical and economic feasibility of developing a reliable deep geothermal system that can provide long-term, environmentally friendly heat supply.

For this critical stage, JRG Energy was selected to lead the feasibility study. With extensive international experience in geothermal drilling, reservoir engineering, and project management, JRG Energy will deliver insights that ensure the project's design aligns with best practices for efficiency, sustainability, and resource optimization.

Awarded in September 2025, this collaboration represents an important step toward advancing regional energy independence and decarbonization through geothermal innovation.

Project Highlights

JRG Energy Engaged for Reservoir Study in Altamin's Cesano Geothermal Potash Project



Altamin Ltd (ASX: AZI) has appointed JRG Energy to deliver the reservoir component of a JORC/ASIC-compliant Scoping Study for the company's Cesano Geothermal Potash Project in Lazio, Italy. The project is targeting the recovery of valuable minerals from geothermal brines, which are enriched with elements such as sulphate of potash (SOP), lithium, and boron.

Mineral-rich geothermal brines are typically found at greater depths, where geothermal activity also creates the potential for combined clean energy and critical mineral production. For Altamin, this represents a unique opportunity to advance sustainable resource development by extracting SOP for agricultural use while leveraging geothermal resources.

JRG Energy has been tasked with completing the reservoir section of the project's JORC/ASIC-compliant Scoping Study. This includes reviewing legacy reservoir data and reports for wells C-1, C-7, and C-8, provided by previous studies from Steam (2024) and EMSL (2024). JRG will estimate well output and reservoir longevity using well testing results and wellbore modelling techniques, and prepare a concise reservoir report suitable for direct inclusion in the Scoping Study. Importantly, all work will be delivered to Competent Person (CP) standards, fully compliant with JORC requirements and ASIC reporting obligations.

Advancing a Strategic Resource Initiative

Altamin plans to drill a new production well alongside an existing legacy well at Cesano, with the aim of confirming geothermal brine potential for SOP extraction. With JRG Energy's contribution, the Scoping Study will provide greater clarity on reservoir capacity, production sustainability, and resource risk management—key factors for advancing the project toward development.

This collaboration signifies another step in combining geothermal science with critical mineral recovery solutions, offering a sustainable pathway to support both the energy transition and agricultural supply chains.

Project Highlights

JRG Energy Supports Hot Springs Development at St Andrews Beach Golf Club

The St Andrews Beach Golf Club in Fingal, Victoria, is moving forward with plans to develop a new hot springs facility on the Mornington Peninsula, approximately 65 km southwest of Melbourne. The project targets the Werribee aquifer, located at depths of 450 to 600 meters—an aquifer known to supply nearby hot spring operations in the region.
A dedicated production well drilled in 2015 confirmed the geothermal potential at the site. The well log showed the Werribee aquifer was intersected between 547 and 642 meters, with preliminary pump testing demonstrating a flow of 43 m³/h at a pump depth of 78 meters. Water chemistry results indicate a brackish brine, with salinity measured at 4,150 mg/L TDS and a temperature of 43.2°C—slightly higher in salinity than comparable facilities such as Peninsula Hot Springs.

JRG Energy's scope of work involves designing the production and injection wells to ensure sustainable hot spring development, while also providing technical input into the design of the filtration and treatment system required for reinjection. In addition, JRG will deliver regulatory support to guide the project through compliance and permitting processes. The team will also supervise drilling operations, ensuring safety, efficiency, and technical accuracy during execution.

Collaboration and Next Steps

The project has officially commenced, with a kick-off meeting and site visit completed earlier this month. JRG Energy's Martin Pujol joined representatives from DGC Water Solutions to begin planning the next stage of development.

With strong geothermal potential already confirmed, the St Andrews Beach Hot Springs Project is set to become a signature wellness destination, offering both community and tourism benefits while utilizing the region's natural geothermal resource.

Events & Webinars

Doubling Down on Geothermal: Insights from NZ Geothermal Week

From 28 July to 2 August, industry leaders gathered in Taupō for New Zealand Geothermal Week 2025, hosted by the NZ Geothermal Association (NZGA) and Amplify. The event showcased New Zealand's global leadership in geothermal innovation and its role in the clean energy transition.

Our General Manager Callum Streeter and Engineering & Consultancy Manager Duncan Steven represented JRG Energy, connecting with peers and exploring opportunities shaping the sector.

Key Takeaways

- Launch of the New Zealand Geothermal Strategy, targeting a doubling of output by 2040
- Focus on direct use applications, carbon capture, and exporting NZ expertise
- Release of the Geothermal Companies Directory and Geoheat Business Guide
- Tour of Contact Energy's Tauhara Power Station, a benchmark for innovation and sustainability

Geothermal Week reinforced New Zealand's global position as a leader in the geothermal sector. The event also underscored how indigenous partnerships, technological advancements, and international collaboration are paving the way for a stronger, more sustainable energy future.

Events & Webinars

Global Geothermal Showcase 2025: Unlocking Australia's Geothermal Future

On 8 September 2025, the geothermal industry converged at the Shine Dome in Canberra for the Global Geothermal Showcase, a landmark event spotlighting the role of geothermal in Australia's transition to net-zero emissions. Hosted by the Australian Geothermal Association (AGA), the International Geothermal Association (IGA), and the Australian Academy of Science, the showcase brought together international leaders, industry experts, and policymakers to shape the future of clean energy.

Representing JRG Energy was Martin Pujol, Reservoir and Direct Use Lead, who joined the dialogue with global specialists on how geothermal can power sustainable development in Australia and beyond.

The Showcase highlighted cutting-edge developments in geothermal technology, financing, and policy, with a focus on how these innovations can be applied to Australia's unique energy landscape. Discussions centered on topics such as engineered geothermal systems, grid stabilization, and heat networks, aiming to position geothermal energy as a pivotal component of Australia's renewable energy future

AEGC 2025: Australasian Exploration Geoscience Conference Recap

The Australasian Exploration Geoscience Conference (AEGC) 2025 was held from September 8–11, 2025, in Perth, bringing together over 1,200 geoscience professionals from around the world. The event featured 200+ technical talks, 19 workshops, and 45 poster presentations covering petroleum and mineral exploration, geophysics, geochemistry, and emerging fields like hydrogen and carbon capture.

JRG Energy was represented by Martin Pujol, who contributed his expertise in geothermal reservoir engineering and direct-use applications. He presented his paper entitled "Understanding temperature anomalies near the Admiral Bay Fault in the West Onshore Canning Basin, WA."

Highlights included keynote presentations from global industry leaders, extensive networking opportunities, and an exhibition showcasing the latest exploration technologies. Workshops and short courses offered practical insights into seismic surveys, 3D seismology, and geochemical exploration methods.

Events & Webinars

52nd Congress of the International Association of Hydrogeologists

The 52nd Congress of the International Association of Hydrogeologists (IAH 2025) was held in Melbourne from 15–19 September 2025, under the theme "Groundwater Now and for the Future." The event brought together researchers, practitioners, and policymakers to address global groundwater challenges, including climate change impacts, sustainable management, and the integration of Indigenous knowledge.

The program featured technical presentations, workshops, and special sessions such as the Global Groundwater Monitoring Assessment and the launch of the updated Transboundary Aquifers of the World Map 2025. These sessions highlighted long-term groundwater trends from more than 40 countries and underscored the importance of cross-border collaboration in water governance.

JRG Energy was represented by Martin Pujol, who engaged with international experts on groundwater–geothermal linkages, sustainability, and innovation. The congress provided valuable opportunities to share knowledge, strengthen networks, and position JRG Energy within the global conversation on groundwater and renewable energy.

VNZI Energy & Efficiency Trade Show in New Zealand

On September 18, JRG Energy represented the geothermal sector at the VNZI Energy & Efficiency Trade Show in New Zealand, joining a dynamic community of industry professionals dedicated to advancing sustainable energy solutions. The event united leaders from across the value chain—generation, transmission, retail, government, and iwi energy—with a shared goal of accelerating the net-zero transition for New Zealand's energy industry

JRG Energy also participated in this event, with Callum Streeter as our company representative.

Some event highlights include:

- The exhibition featured cutting-edge technologies in energy efficiency, renewables, electrification, and smart grid innovation, reflecting ongoing momentum toward practical transition solutions.
- Attendees engaged in discussions on actionable demand-side strategies, regional partnerships, and new policy frameworks aimed at enhancing energy resilience and affordability.
- Expert panels including policymakers, researchers, and industry advocates provided insights on collaborative programs, community-led initiatives, and pathways to reduce carbon emissions and foster electrification at scale

Events & Webinars

PIGC 2025: Driving Geothermal Innovation in the Philippines

The 6th Philippine International Geothermal Conference (PIGC 2025) was held on September 10–11, 2025, at The Fifth at Rockwell, Makati City, gathering industry leaders, policymakers, and experts to discuss advancements in geothermal energy under the theme “Flash Point: Igniting Human Ingenuity and Geothermal Innovation.”

JRG Energy was proudly represented by Callum Streeter (General Manager) and Kennard Maturgo (Reservoir & Well Test Engineer). During the conference, JRG Energy delivered three technical presentations, showcasing our global geothermal expertise and sharing insights that drive innovation across exploration, reservoir management, and sustainable development.

Cal and Ken also participated in the PH-NZ Geothermal Pre-conference Workshop, a collaborative platform facilitated by New Zealand Trade and Enterprise, designed to foster technical exchange and strengthen regional partnerships between Philippine and New Zealand geothermal leaders.

The conference featured keynote addresses from industry stalwarts, technical sessions on innovations in drilling, reservoir modeling, ESG strategies, and emerging technologies in steam field and power plant operations, as well as ample networking opportunities for stakeholders to explore partnerships and knowledge sharing.

PIGC 2025 reinforced the Philippines’ leadership in geothermal energy and highlighted JRG Energy’s commitment to advancing innovation and sustainable solutions in the sector.

Events & Webinars

11th Indonesian Geothermal Energy Annual Conference (IIGCE 2025)

JRG Energy was honoured to be part of the 11th Indonesia International Geothermal Convention & Exhibition (IIGCE 2025), held September 17-19 at the Jakarta International Convention Center. The theme — “Fostering Collaboration for a Green Economy in Indonesia: The Role of Geothermal Energy in Sustainable Growth” — set a forward-looking tone for Indonesia’s path to energy transition.

Some of the major highlights of the event were:

- A major highlight was the signing ceremony of geothermal project commitments and investment agreements totaling USD 1.5 billion (IDR ~25 trillion), involving governmental bodies, universities, and industry partners.
- Several new contracts and memoranda were disclosed, including EPC award for Dieng Unit 2 (55 MW), and new cooperative frameworks for geothermal working areas and exploration partnerships.
- In policy and regulatory sessions, the Indonesian government announced efforts to accelerate permitting, including reducing licensing timelines (through its OSS – Online Single Submission system) and new incentives to promote geothermal development.
- Technical and thematic sessions spanned reservoir management, direct use (e.g. agriculture, tourism, hydrogen), carbon credits, environmental & social safeguards, and innovations in drilling and software tools. i
- The event also featured an international exhibition and networking forums where infrastructure providers, developers, and tech firms showcased geothermal products and services.

JRG Energy’s representative to the event was Martin Pujol, who engaged in high-level dialogues and technical sessions, exploring partnerships across Southeast Asia. Our presence helped strengthen JRG’s connectivity with Indonesian stakeholders and elevated our profile in a key geothermal growth market.

Events & Webinars

Latin American (LATAM) Geothermal Congress

JRG Energy was proud to participate in the Latin American (LATAM) Geothermal Congress 2025, held September 22–25 in San Salvador, El Salvador. The first of its kind in the region, it brought technical experts, policymakers, researchers, and industry stakeholders together under a theme of forging a unified regional geothermal agenda.

Representing JRG Energy was none other than, Pablo Aguilera, Phd, who also presented the topic on “Integrating Advanced Geoscientific Studies and Comprehensive Resource Assessment in Geothermal Exploration.”

Some of the event highlights were:

- The congress featured 110+ abstracts, contributions from over 20 countries, and cross-disciplinary roundtables covering policy, financing, technology, environmental & social impacts, and direct use applications.
- A major highlight was the field visit to the Ahuachapán Geothermal Plant, which is celebrating 50 years of continuous operation. The site tour offered participants real-world insights into long-term project sustainability, maintenance strategies, and lessons learned over decades.
- The congress emphasized the importance of regional cooperation and shared vision, including harmonizing regulation, pooling technical resources across borders, and developing a Latin American geothermal roadmap.
- Technical sessions spanned both low- and high-temperature geothermal systems, geothermal in industrial & agricultural use, financing models specific to emerging markets, and environmental/social engagement best practices.

City of Regina’s Indoor Aquatics Facility Construction Has Officially Started

Construction is underway on Regina’s new Indoor Aquatics Facility—an ambitious CA$313.6 million (US$228 million) project set to deliver both world-class recreation and sustainable innovation.

At the heart of the facility is a CA$28.5 million (US$20 million) deep geothermal heating system, developed with JRG Energy, MacPherson Engineering Inc., the Petroleum Technology Research Centre, and other partners. The system will draw naturally heated 60 °C water from over 2 km underground, providing reliable hot water for decades while cutting emissions equal to removing 2,355 cars from the road each year.

Alongside this clean energy breakthrough, the facility will feature:

- Two Olympic-size 50m pools
- A wave pool and waterslides
- Training areas and community spaces

This project is a major step toward Regina’s goal of becoming a net-zero city by 2050—building a healthier, more sustainable future for all residents.

Learn more: City of Regina Project

Geothermal News

Singapore’s Geothermal Breakthrough: Unlocking a New Clean Energy Future

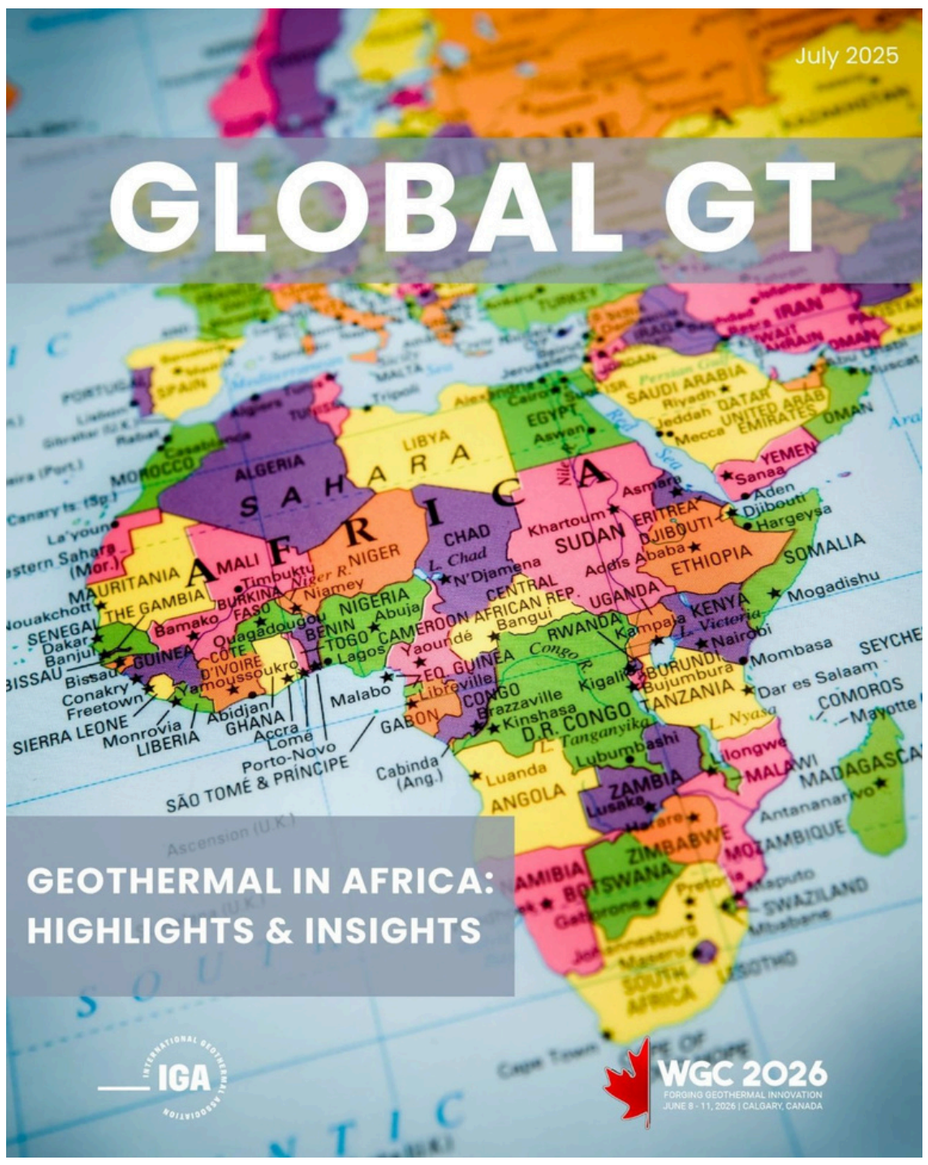
Singapore has taken a major step forward in its clean energy journey with groundbreaking geothermal findings in Sembawang. Recent borehole drilling revealed subsurface temperatures of 122°C at a depth of 1.76 km—an exceptional result that is double the global average thermal gradient. Combined with earlier results from Admiralty (70°C at 1.12 km), this discovery showcases the city-state’s unique geology, marked by heat-producing granites and unusually high gradients.

Scientists estimate that temperatures could reach up to 230°C at 5 km depth, unlocking the potential for electricity generation, district cooling, and direct-use applications. This development positions geothermal energy as a viable addition to Singapore’s clean energy mix—providing a weather-independent, locally sourced solution that strengthens both energy security and decarbonization efforts.

This achievement is the result of collaboration between NTU, TUMCREATE, and Surbana Jurong, whose research and innovation are setting the stage for Singapore to harness geothermal energy in ways once thought impossible for the region.

Learn More: Singapore’s Geothermal Breakthrough

Africa’s Geothermal Rise: Powering a Sustainable Future



East Africa is emerging as the continent’s geothermal leader—with Kenya at the forefront. Landmark projects like Olkaria V & VI and Menengai have pushed Kenya past 1 GW of geothermal capacity, now supplying nearly half the nation’s electricity with clean, reliable baseload power.

Momentum is spreading across the East African Rift, with Ethiopia, Tanzania, Djibouti, Rwanda, and Burundi all advancing projects. Experts project up to 17 GW of capacity in East Africa by 2045.

But the geothermal story extends beyond the Rift. Advances in Binary ORC technology are creating opportunities in Central, West, and Southern Africa, strengthening off-grid supply, rural electrification, and mining operations. Even island nations such as Mayotte, Comoros, and Seychelles are tapping geothermal for energy security and climate resilience.

At JRG Energy, we celebrate these milestones and support partnerships that are unlocking geothermal potential worldwide. The future of energy is geothermal—and Africa is leading the way.

Read the full story on this link.

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For more information,
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