

EcoPower Source Inc. Examines the Convergence of AI Infrastructure, Telecommunications, and Geothermal Deployment

HOUSTON, TX, UNITED STATES, August 24, 2026 /EINPresswire.com/ -- As AI expands beyond hyperscale campuses and into rural America, developers are encountering interconnected infrastructure and community challenges. To bridge this gap, [EcoPower Source Inc. \(EcoPower\) CEO Sharita M. Humphrey](#) recently joined leaders from NVIDIA, KPMG, and XGS Energy at the Society for Low Carbon Technologies' (SFLCT) "Powering the AI Edge: Scaling Infrastructure in Rural Hubs and Megacities" panel. There, Humphrey outlined a framework integrating next-generation telecommunications, microgrids, and disciplined water stewardship across geothermal and digital infrastructure.



EcoPower Source Inc. CEO Sharita M. Humphrey (right) joins leaders from NVIDIA, KPMG, EnergyBackers, and XGS Energy to explore AI beyond conventional data centers

Speaking to the realities of rural development, Humphrey emphasized that geothermal projects can no longer operate in a vacuum. She explained: "We can no longer view AI infrastructure in silos. In this new era, power availability, localized policy, and upfront community trust are completely interdependent." Instead, geothermal projects increasingly depend upon co-located telecommunications networks, localized microgrids, and disciplined water management.

The panel's themes mirror the integrated infrastructure architecture EcoPower is actively advancing. This approach reflects EcoPower's expansion into the GeoEcoHub™ model, which seeks to merge geothermal energy, next-generation (5G/6G) telecommunications, resilience planning, and community-scale digital infrastructure into a unified deployment framework. Against this backdrop, the SFLCT's Chairman of the Board, Fernando C. Hernandez, pictured in

the second image, opened the discussion.

This strategy codifies principles Humphrey has championed publicly since 2025. [Speaking on media platforms, including “Geothermal Unleashed.”](#) she emphasized that rural infrastructure must prioritize long-term community stewardship over short-term project delivery. Rather than departing after construction, EcoPower remains embedded within host communities to support capital structuring and technology deployment. By coupling resilient microgrids, including geothermal, with localized economic investment, the GeoEcoHub™ framework translates that philosophy into measurable impact, targeting a 30 to 40% reduction in local energy costs while generating municipal revenue for economic growth and development.



“Powering the AI Edge” examined how power, telecommunications, water, policy, and community trust shape AI infrastructure deployment (SFLCT’s Chairman of the Board opening the discussion, far right)

Panelists represented complementary components of the AI infrastructure ecosystem: NVIDIA as the dominant compute platform underpinning modern AI, XGS Energy advancing geothermal co-location for data center applications, and KPMG advising on infrastructure finance and project execution. Within this group, Humphrey occupied the intersection of technology, capital, and rural-scale deployment. Drawing on her background as a former government auditor, Humphrey argued that the success of AI-driven infrastructure relies as much on sound financial modeling and local policy alignment as it does on power grid access and public acceptance.

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Sharita M. Humphrey

The discussion drilled down into the architectural blueprint of rural AI, examining how telecommunications infrastructure converges with geothermal development. Panelists explored the deployment of next-generation (5G/6G) connectivity alongside AI Radio Access Networks (AI-RAN), [such as those being advanced by NVIDIA and T-Mobile](#). Against this backdrop, they contrasted traditional grid interconnections with hybrid microgrid configurations ranging from behind-the-meter setups to full transmission integration. The foregoing was paired with real-world constraints: specifically, water stewardship in geothermal co-location, policy effectiveness, and how community sentiment shapes where digital infrastructure is built. Finally, the

conversation tackled pathways to de-risk key bottlenecks, notably growing public opposition to data center development.

Humphrey's career has uniquely positioned her at the fulcrum of energy systems, capital formation, and technology deployment. Her background in public-sector auditing, entrepreneurship, and appointments as a U.S. Department of State Speaking Expert and Google for Startups Accelerator Mentor reflects an ability to operate across disciplines often evaluated independently. In many respects, that mirrors the very challenge discussed throughout the panel: infrastructure systems are increasingly converging, while institutions and markets continue to assess them in silos. Her trajectory suggests that bridging those silos may ultimately prove as consequential as the technologies seeking to connect them. Humphrey's service on the SFLCT's advisory board further reinforces this multidisciplinary perspective.

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