



How One Bitcoin Company Earns Millions by Turning Off Its Machines

Riot Platforms makes over \$31.7M in a single month through strategic power management. Discover how they're revolutionizing the energy-intensive Bitcoin mining industry through Automated Demand Response.

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Not Affiliated with Riot Platforms

The Power Challenge for Bitcoin Mining

Bitcoin mining consumes enormous amounts of electricity, making power costs the primary operational expense. Riot Platforms operates massive facilities in Texas and Kentucky, with plans to scale to 1 GW capacity by 2026.

Operating in volatile electricity markets like ERCOT (Texas) exposed Riot to unpredictable price spikes during peak demand. Rather than just accepting these costs, they transformed this challenge into a revenue opportunity.

MINING
12.5

What is Automated Demand Response (ADR)?

1

Fully Automated Systems

Control systems that automatically reduce electricity consumption when grid signals are received, eliminating the need for manual intervention.

2

Financial Incentives

Companies receive compensation for making their load available to curtail, even if they're never actually called upon to reduce power.

3

Grid Stabilization

Helps maintain electrical grid reliability during peak demand periods by rapidly decreasing consumption from large users.

ADR enables energy-intensive operations to become responsive grid assets that can be turned down or off when electricity is most valuable.

Riot's "Halt-and-Earn" Strategy



Monitor Grid Prices

Automated systems constantly track ERCOT real-time electricity prices.



Shutdown When Profitable

When prices exceed mining profitability threshold, systems automatically shut down.

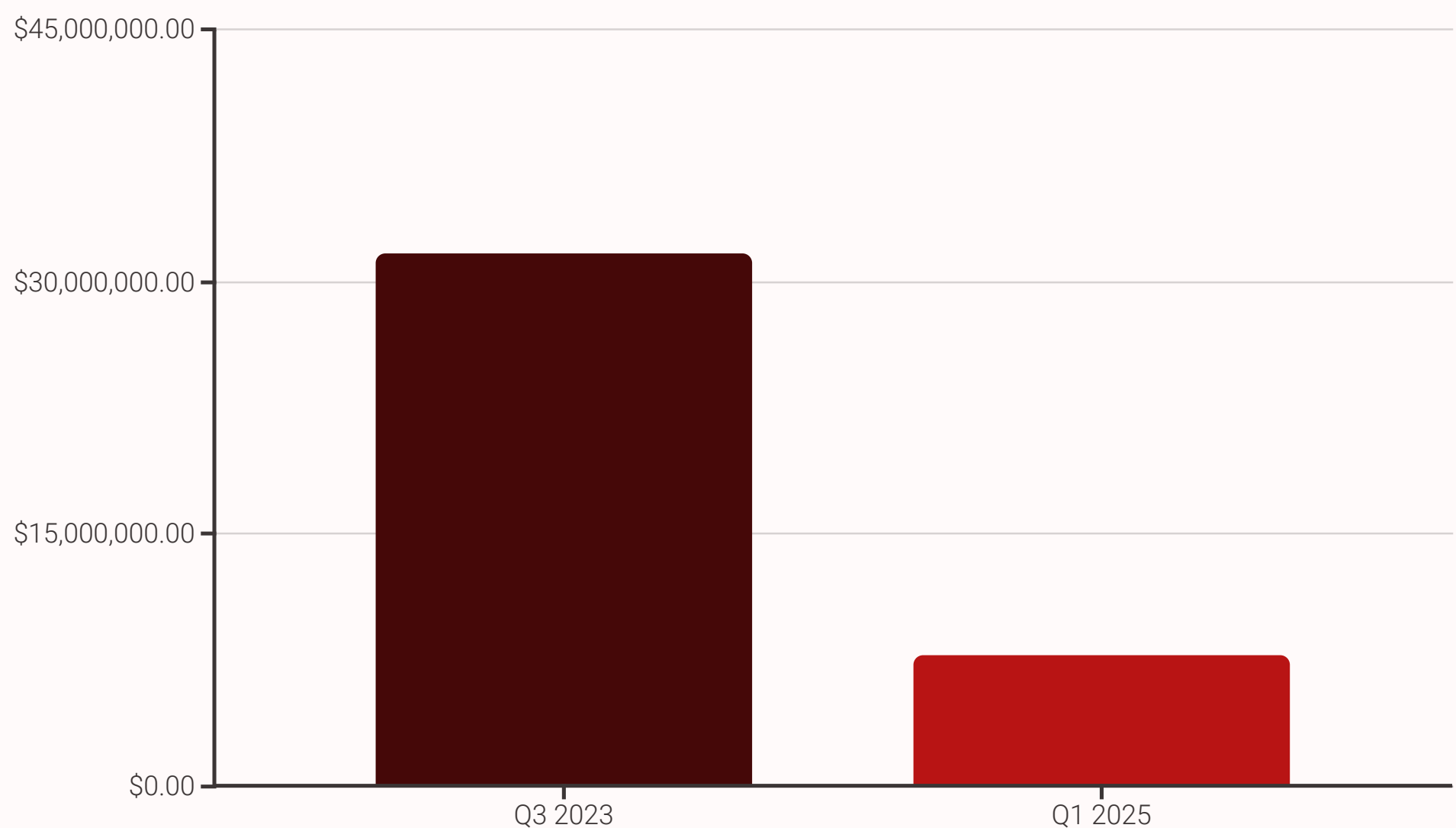


Collect Power Credits

Earn the difference between fixed contract price and high spot market rates.

On a single day (June 20, 2023), Riot received approximately \$6.22 million in combined credits from one peak demand event.

The Financial Impact of ADR



Riot maintained an industry-low power cost of $\sim 3.4\text{¢/kWh}$ thanks to their ADR strategy. This dramatically improved their Bitcoin production economics, with \$7.8 million in curtailment credits in Q1 2025 alone reducing their mining cost per Bitcoin.

By Q1 2025, total revenues reached \$161.4 million, with Bitcoin mining revenue comprising \$142.9 million of that total.

Behind the Scenes: How ADR Works at Riot

1

Enrollment & Setup

Riot qualifies its mining clusters as Non-Controllable Load Resources (NCLRs) under ERCOT rules, connecting automated software to facility controls.

2

Automated Monitoring

Systems continuously monitor grid signals, price spikes, and demand levels without human intervention.

3

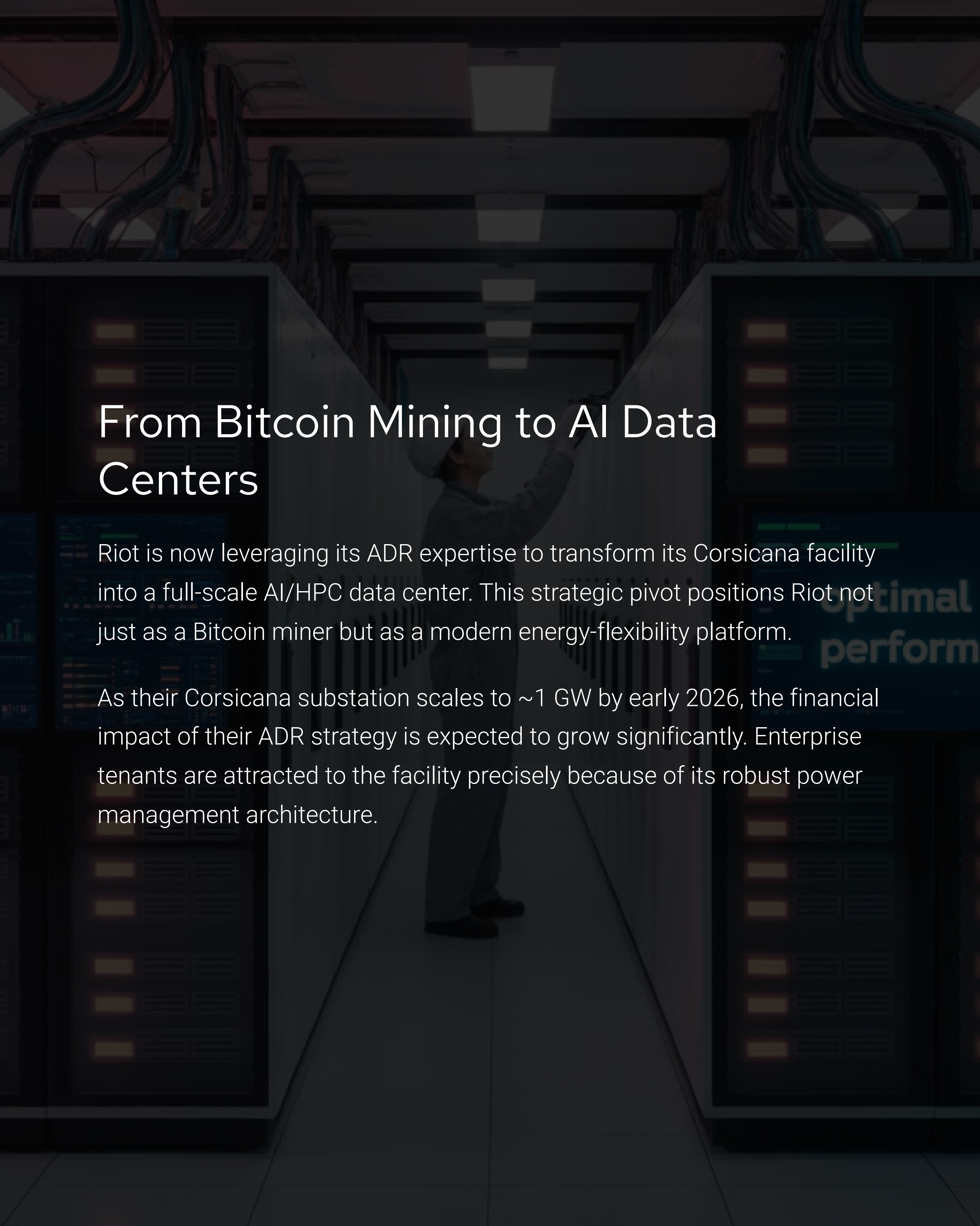
Curtailment Execution

When triggered, systems automatically shut down thousands of mining rigs and reduce HVAC loads within seconds.

4

Credit Collection

Riot receives both power curtailment credits (contract vs. spot difference) and demand response program payments.

A person in a white lab coat and cap is standing in a server room, reaching up to adjust a server rack. The room is filled with rows of server racks, and the lighting is dim, with some racks glowing with orange light. The background shows a long perspective of the server aisle.

From Bitcoin Mining to AI Data Centers

Riot is now leveraging its ADR expertise to transform its Corsicana facility into a full-scale AI/HPC data center. This strategic pivot positions Riot not just as a Bitcoin miner but as a modern energy-flexibility platform.

As their Corsicana substation scales to ~1 GW by early 2026, the financial impact of their ADR strategy is expected to grow significantly. Enterprise tenants are attracted to the facility precisely because of its robust power management architecture.

The Future of Energy-Intensive Computing

Riot Platforms demonstrates how energy-heavy operations can transform from grid liabilities into dynamic energy assets. By combining intelligent automation, strategic market participation, and long-term power contracts, they've created a dual revenue model that both reduces costs and supports grid reliability.

As energy demands for AI and cryptocurrency continue to grow, this approach will become increasingly valuable. Companies that master energy flexibility will have a significant competitive advantage.

Have you considered how energy management could create new revenue streams for your business? Share this post with a colleague who works in data centers or energy-intensive operations.