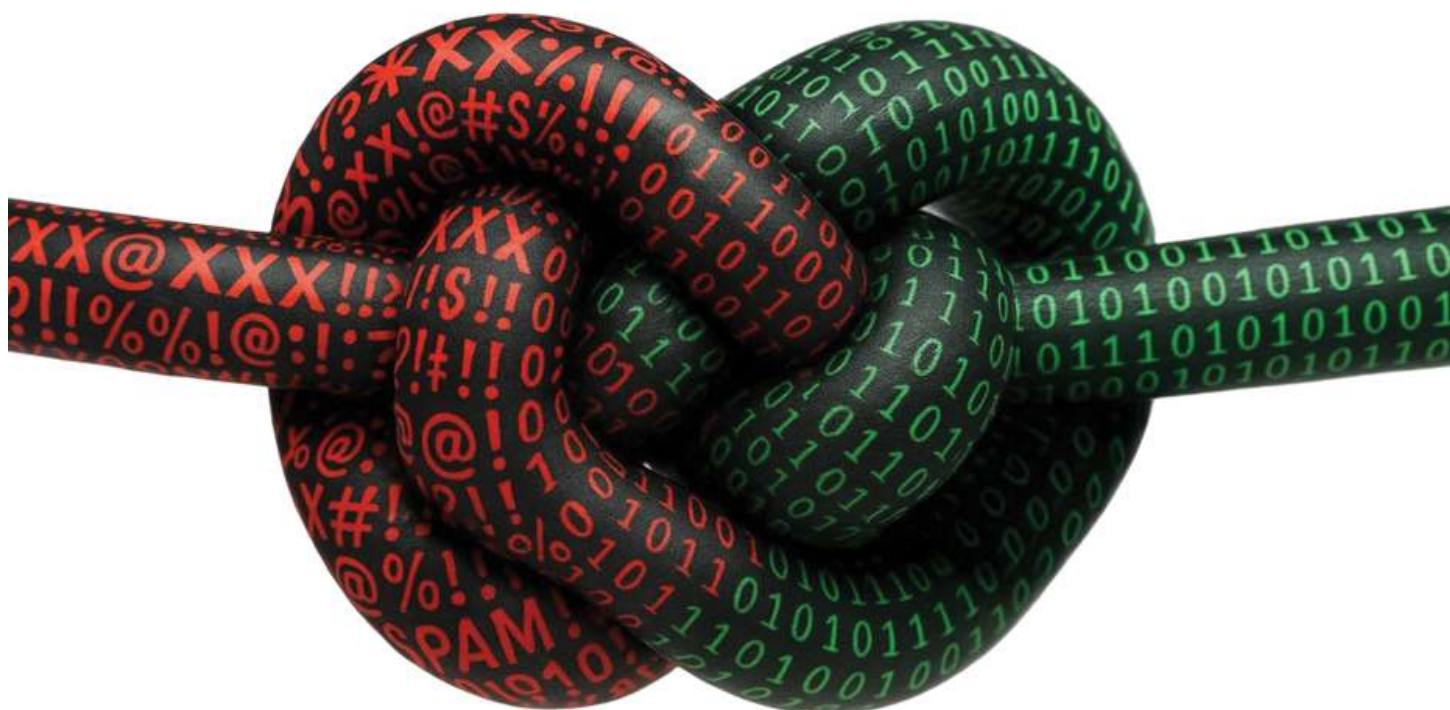


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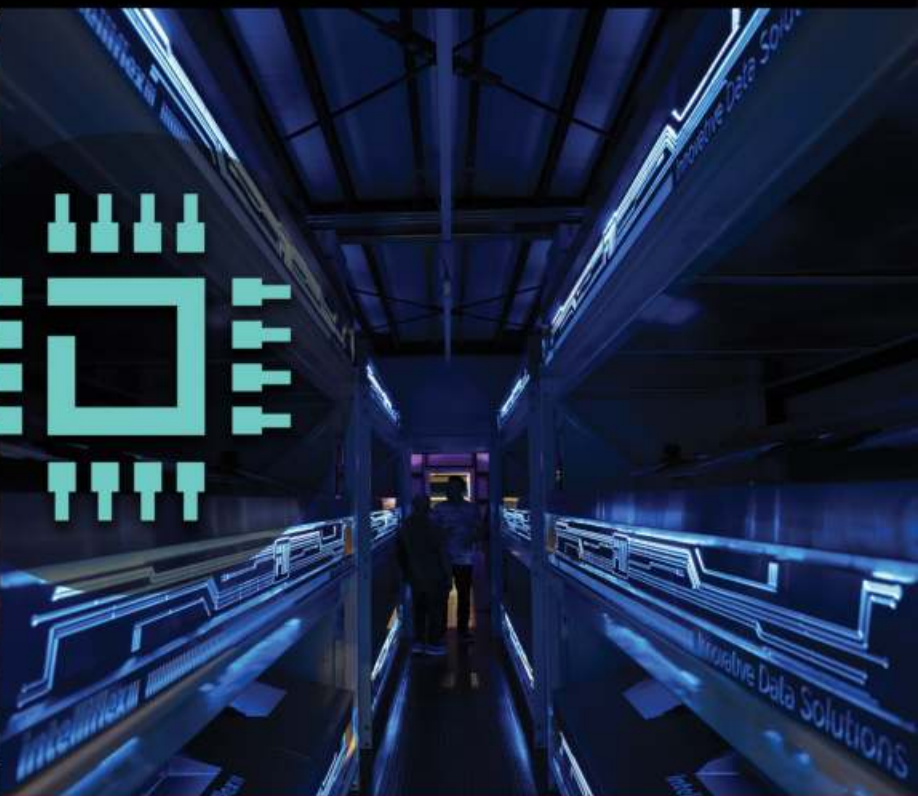


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- 7th Year Expo
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As the world's largest and premium Bitcoin Mining Tradeshow, Mining Disrupt places a strong emphasis on return on investment (ROI) for all sponsors. With a remarkable seven-year track record of repeat sponsors, it is evident that this event delivers substantial value and results. Companies that sell products or services find this tradeshow an exceptional platform to elevate their brand exposure and success. Mining Disrupt attracts a diverse and engaged audience, ensuring that participants connect with potential customers and partners who are actively seeking the latest innovations and solutions in the industry.

Each year, Mining Disrupt hosts thousands of professionals from around the globe who are eager to learn, network, and transact with the brands that choose to sponsor and exhibit. This dynamic environment fosters meaningful interactions and business opportunities, making it a premier destination for companies aiming to make a significant impact in the Bitcoin mining sector.

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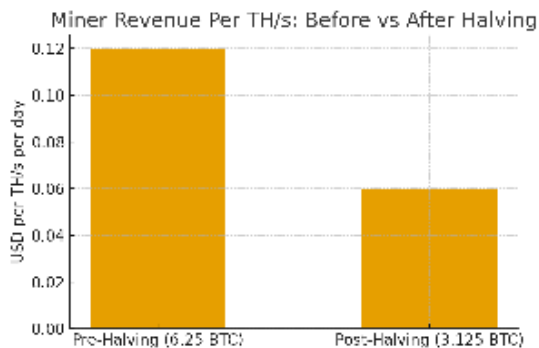
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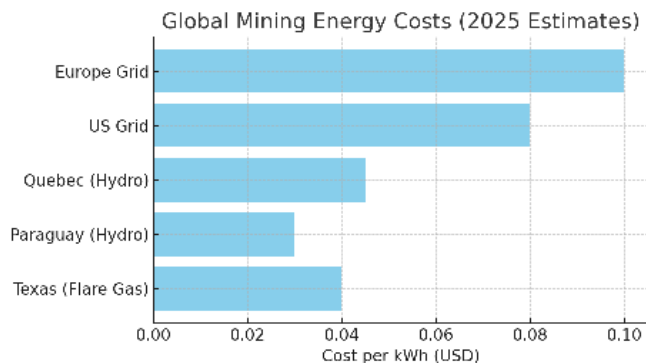


POST-HALVING ECONOMICS: SURVIVING & THRIVING

How miners are adapting to Bitcoin's toughest squeeze yet



When Bitcoin's latest halving slashed block rewards from 6.25 BTC to 3.125 BTC in April 2024, miners worldwide braced for impact. Overnight, revenue streams dropped by half while operating costs — electricity, hardware depreciation, and labor — remained the same. For many, it was a do-or-die moment. Yet, history shows halvings don't kill Bitcoin mining; they transform it. The question isn't if miners survive, but how.



Consolidation: Bigger Players Get Bigger

Smaller operators with thin margins are facing sell-offs. The halving has accelerated M&A; activity, with large-scale farms acquiring distressed assets for pennies on the dollar. Private equity firms and energy giants are entering the space, betting that efficient mega-mines will dominate the next era of mining.

Survival Tactics: Efficiency First

The most immediate response has been cost optimization. Mid-size farms that once ran on expensive electricity are either shutting down or relocating to energy-friendly regions. Texas, Paraguay, and Quebec have emerged as post-halving winners, offering cheap hydro, flare gas, or deregulated energy markets that keep kilowatt-hour costs below \$0.05.

Financial Tools: Hedging the Halving

To counter volatility, miners are turning to financial engineering. Instruments like hashrate-backed derivatives, structured loans, and long-term hosting contracts are now standard in professional mining. Some operators are even hedging electricity futures to lock in predictable costs.

“Post-halving survival isn’t about who can mine the most Bitcoin — it’s about who can manage risk the best,” says one Texas-based farm operator.

Winners & Losers

Winners	Losers
Efficient operators with renewable energy	Small-scale farms on expensive grids
Immersion-cooled farms	Operators without capital buffers
Miners with financing access	Over-leveraged buyers of pre-halving rigs

The Road Ahead

Looking back, Bitcoin has survived three prior halvings — each one brutal, each one followed by explosive growth. Analysts expect the 2024–2025 cycle to follow the same trajectory: short-term miner pain, long-term industry maturity. Survivors of this halving won’t just be running farms; they’ll be running lean, diversified, and risk-managed energy businesses.

☐☐☐

Post-Halving Survival Checklist

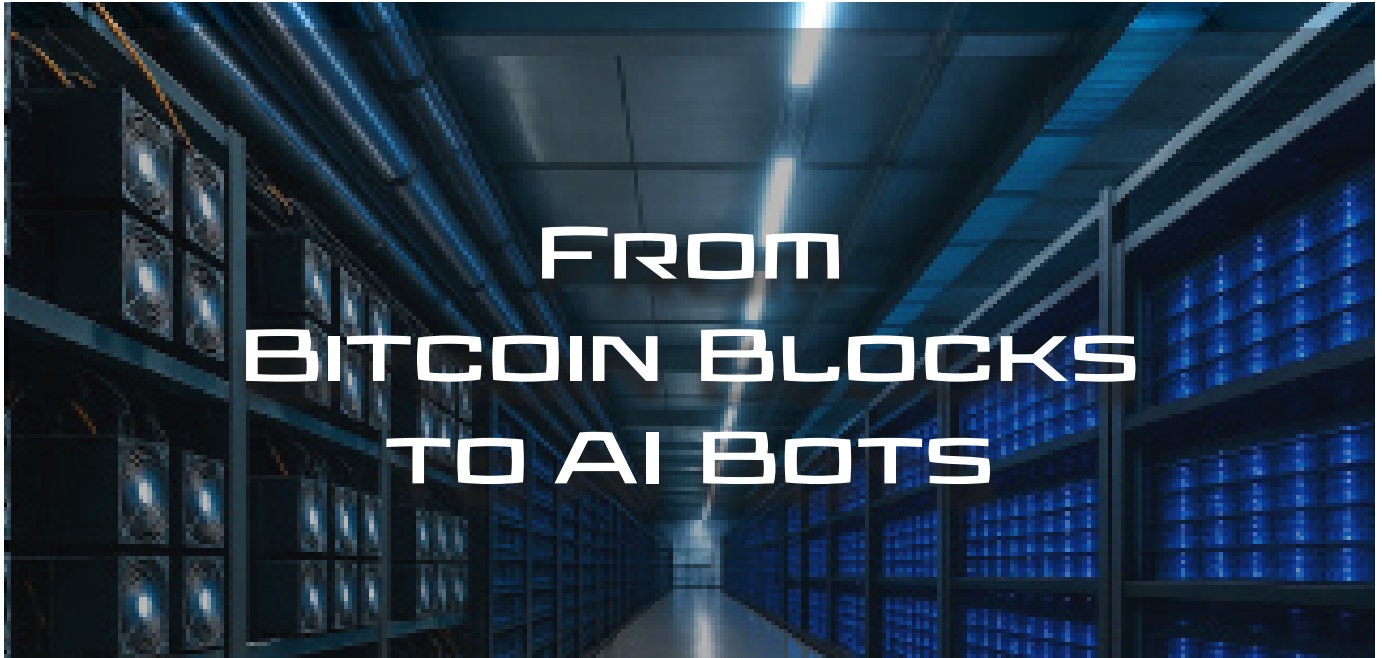
Cheap power (< \$0.05/kWh)

Immersion Cooling & efficiency upgrades

Hedging electricity & BTC price

☐ Access to capital / credit

☐ Geographic diversification



Bitcoin mining and artificial intelligence may seem worlds apart—but in 2025, they are converging faster than anyone expected. Both demand massive amounts of energy, advanced cooling, and industrial-scale data centers. What started as facilities built to secure the Bitcoin network are now being reimagined as AI supercomputing hubs.

Mining Farms as AI Data Centers

Mining farms aren't just about ASICs anymore—they're becoming dual-purpose facilities.

Infrastructure Overlap:

- Bitcoin miners: megawatt-scale electricity, immersion cooling, rack systems.
- AI workloads: GPU clusters, cooling, and massive parallel processing.

Real-World Examples:

- CoreWeave → pivoted from Ethereum mining into AI cloud services.
- Hut 8 → operates hybrid facilities with Bitcoin miners and Nvidia GPUs.
- Bitfarms & Iris Energy → exploring GPU hosting contracts.

Why Miners Have the Edge:

- Existing facilities already connected to power grids.
- Expertise in operating 24/7 uptime environments.
- Ability to scale quickly compared to traditional data centers.

Economics: Hashrate vs Compute Power

This is where convergence gets interesting: profitability.

Bitcoin Mining:

- Revenue depends on BTC price, difficulty, and block rewards.
- Costs fluctuate with energy prices.
- Halvings (every ~4 years) slash block rewards—2024's cut from 6.25 BTC to 3.125 BTC forces efficiency.

AI Hosting:

- AI startups and labs pay premium prices for compute.
- GPU rental contracts last months or even years → predictable cash flow.
- Less exposure to Bitcoin's price volatility.

Hybrid Facilities:

- Some miners dedicate part of their site to AI, part to Bitcoin.
- Balances short-term speculative upside of BTC with stable AI income.

AI Enhancing Mining

The relationship between mining and AI is not a one-way street. While miners are powering AI, artificial intelligence is simultaneously making mining itself smarter. Predictive maintenance algorithms now monitor ASICs, analyzing heat, sound, and electrical patterns to identify failing machines before they crash. Machine learning models are being integrated into mining firmware, automatically adjusting voltage and clock speeds to squeeze out maximum efficiency.

AI is also proving invaluable in managing energy consumption. With electricity prices fluctuating hour by hour, AI-driven load balancing can determine when to scale down during expensive peak times and ramp up when energy is cheap. Cooling systems are also becoming more efficient thanks to AI optimization, ensuring that both ASICs and GPUs run at stable temperatures without wasting unnecessary energy. In short, miners are not only hosting AI—they are letting AI run their farms better than ever before.



Centralization vs Decentralization

Despite all the excitement, the convergence of AI and Bitcoin raises a fundamental philosophical question: what happens when a decentralized system collides with a highly centralized one? Bitcoin mining was designed to be open and permissionless, with anyone able to contribute hashpower to the network. AI development, by contrast, has quickly consolidated into the hands of a few massive corporations that control the most advanced models and the most powerful compute clusters.

Some believe that miners could play a unique role in pushing back against this centralization. By leasing GPU clusters to smaller startups, research labs, or independent developers, miners could democratize access to AI in the same way they helped decentralize finance through Bitcoin. If mining facilities become open marketplaces for compute power, they might prevent AI from becoming dominated by only a handful of Big Tech giants.

The Future Is Hybrid

The collision of Bitcoin mining and artificial intelligence is no longer theoretical—it is already happening. Across North America, Europe, and Asia, miners are repurposing their facilities to power the world's most advanced AI systems. At the same time, AI is improving mining itself, creating a cycle of mutual reinforcement.

The miners who adapt first will not only survive the next Bitcoin halving—they will thrive in a future where the same infrastructure that once secured digital money is now powering digital intelligence. What began as a niche experiment in securing a decentralized currency may end up playing a pivotal role in shaping the future of artificial intelligence.

The same warehouses that once produced Bitcoin are now producing intelligence. The infrastructure that built financial freedom may yet build technological freedom as well.

THE POWER OF... LESS POWER

How FarmGod Firmware unlocks hidden efficiency in Bitcoin mining.

In Bitcoin mining, more power does not always mean more profit. At **ASIC Plug** & **FARMGOD**, we have found that the greatest innovations often come from restraint. **FARMGOD Firmware**, compatible with all WhatsMiner models, gives operators precise control to optimize efficiency and uptime.

This article highlights one of its most impactful capabilities: **underclocking** to increase profitability and reduce total energy demand. By refining firmware control through real-world testing, miners can increase margins while extending hardware life.

We recently completed a controlled study using **FARMGOD Firmware**, a **U.S. owned and developed** optimization platform designed for precise control of WhatsMiner hardware, a group often underserved by third-party tools. Testing was conducted at a West Texas grid-connected site, where average power consumption measured about **3,480 watts** per M30S++. Power limits were gradually reduced through firmware optimization to **3,000 watts**, while improving autotuning response times and rebound behavior following curtailment events.

At an industrial electricity rate of **\$0.06 per kWh**, this tuning produced a **19.7 percent increase in net profit** and improved efficiency from **31.7 J/TH to 30.3 J/TH**, proving that the highest returns come from balanced efficiency, not brute force.

FARMGOD Firmware provides deeper control over voltage, frequency, and thermal response curves, allowing miners to fine-tune for power pricing and environmental conditions. Its adaptive algorithms maintain stability even at reduced power targets, extending hardware lifespan and improving uptime consistency.

At **ASIC Plug**, our mission is to lower the cost of equipment for miners, and we are experts at that. At **FARMGOD**, our philosophy is that smarter fleet management and reporting, paired with smarter firmware, creates smarter mining. Every watt saved compounds across the fleet, converting operational efficiency into a measurable increase in sats at the end of the day.

DAN KOEHLER

CEO, ASIC Plug & FARMGOD



FARMGOD

