

THE ULTIMATE GUIDE TO

Choosing Your Bitcoin Mining Management Platform

LōD, Braiins, Luxor and Foreman, compared honestly. A vendor-neutral field guide for operators running 5–20 MW.

Braiins

LōD

Luxor

Foreman

READ THIS FIRST

A straight answer, not a sales pitch

Written by the LōD Team · Current as of July 2026

If you run a Bitcoin mining operation, you have probably typed some version of this into Google: “best mining management software” or “LōD vs Foreman vs Luxor vs Braiins.” You want a straight answer, not a sales pitch.

Here it is. Four platforms show up again and again in that search: **LōD** (lod.io), **Braiins** (braiins.com), **Foreman** (obm.io), and **Luxor** (luxor.tech). At the core, they all do the same job but with different approaches. They let you monitor, analyze, and control your ASIC fleet from one place instead of walking the floor. If a vendor tells you their platform is nothing like the others, be skeptical.

The real differences show up in scope: how far each platform goes into firmware, pool economics, financing, facility operations, and energy markets, and how open or closed that stack is once you're in it. This guide breaks each one down on those terms, including where LōD is not the right fit.

1,000+

MW under management

10B+

Data points indexed

50+

Hardware models tracked

A NOTE ON WHERE WE SIT

We naturally believe our platform has strengths. That said, every platform has tradeoffs, and the best choice depends on your priorities. This comparison is built from each vendor's own feature and pricing pages, product documentation, benchmarks, and customer examples, plus what we see running alongside these tools in the field. Where a competitor does something better, we say so.

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HOW TO USE THIS GUIDE

In a hurry? Jump to the comparison tables on pages 12–14 for the fast answer. Want the reasoning? Read **Where each platform stands** (p.06). When you're ready to pressure-test your own setup, page 26 tells you the one next step.

01

What these platforms actually do

The shared foundation every platform starts from, and where they begin to diverge.

Strip away the marketing pages and all four tools share a foundation: **fleet visibility and remote control**. That means uptime, hashrate, temperatures, and the ability to act on your ASICs without a technician standing in front of them.

Past that shared core, each platform picks a different direction to specialize in, and several now use different names for similar functions. “Power control,” “curtailment,” and “demand response signaling” often describe the same underlying action: turning load down when the grid needs it or it’s uneconomical to continue to operate. Keep that in mind as you compare feature lists, because the label is not always the differentiator.

THE ONE THING TO REMEMBER

The same action wears three names. Compare scope and openness, not the length of the feature list.

Next page → a side-by-side company snapshot of all four vendors.

Company snapshot

Attribute	Lod	BRAVINS	Luxor	OBM *Foreman
Founded	2021 (evolved from Lincoln)	2011	2017	2017
Headquarters	Vancouver, Canada	Prague, Czech Republic	Seattle, United States	Baltimore, United States
Core market	Flexible data centers, Bitcoin mining, AI, HPC	Bitcoin mining operations	Bitcoin mining, hashrate financial markets, energy retail	Bitcoin mining, expanding into flexible load management
Platform type	Energy-integrated mine management (ASICs, GPU, sensors)	Mine management, firmware	Mine management: pool, firmware, derivatives, hardware, energy	Mine management

02

Where each platform stands

Four vendors, four bets on where the value sits. Here's what each one is genuinely built for, and where it fits.



BRAIINS

braiins.com · Per-chip autotuning & firmware

Braiins started as Slush Pool, the first Bitcoin mining pool, before building out Braiins OS+ firmware, Braiins Toolbox, and Braiins Manager for fleet-wide configuration and monitoring.

The headline feature is **per-chip autotuning**: Braiins OS+ optimizes each ASIC chip's frequency and voltage individually instead of treating every chip the same. Braiins Pool charges up to a 2.5% pool fee, which could be rebated if your whole fleet runs on Braiins OS. Running the firmware on another pool costs up to a 3% dev fee.

On energy, Braiins now integrates with third-party curtailment service providers, including Enel, CPower, and Voltus, so fleets can participate in demand response. Braiins itself does not sell the energy relationship. You are managing Braiins plus a separate CSP.

WHERE IT FITS

Operations that want deep ASIC-level tuning and are comfortable running Braiins firmware to get it. Braiins' management layer currently supports Braiins firmware, stock firmware from Bitmain and Whatsminer, and a few other options.



luxor.tech · Full-stack: pool, firmware, financing, energy

Luxor is the company that has changed the most recently. What began as a focus on pool and firmware has evolved into an end to end vendor.

In 2026, Luxor launched Commander, a fleet management and profitability software that complements its existing offerings, which include a mining pool, firmware (LuxOS), hashrate derivatives, and hardware financing. Additionally, Luxor has a strategic partnership with Ammper Power, which will serve as the QSE behind Luxor Energy's Load Serving Entity (LSE) in ERCOT. As a result, Luxor now offers pool management, firmware, financing, energy procurement, and fleet operations all under one company.

That is a real shift. Luxor is no longer just about hash economics. It is positioning itself as **the one vendor that handles the entire mining stack**, financial and energy included. The tradeoff is concentration: getting Luxor Energy means becoming Luxor's retail power customer, which ties your energy strategy to a single company's book.

WHERE IT FITS

Operators who want one vendor for pool, firmware, hardware financing, and retail power, and who are comfortable with that level of consolidation.

The OBM logo is displayed in large, white, sans-serif capital letters. Behind the text is a dark, moody photograph of a man with glasses and a beard, looking slightly to the side. In the background, there are blurred lights and what appears to be a server rack or data center environment.

Foreman (rebranding to OBM) · obm.io · Remote monitoring & flexible load management

Foreman is OBM's flagship product: remote monitoring for hash rate, energy consumption, equipment health, and firmware, built for technicians who need to manage a site without being on it. OBM has since rebranded around “flexible load management,” extending past Bitcoin mining into other power-intensive operations.

In 2026, OBM added **Foreman Intelligence**, an AI-powered analytics layer that lets operators query fleet, maintenance, and energy market data in plain language. Foreman Intelligence is sold as an add-on.

If you want Foreman for energy market participation, you will need to pay separately for these features.

WHERE IT FITS

Technicians and site operators who want a straightforward, proprietary system for daily fleet management, and who are fine adding modules as needs grow.

LōD

lod.io · Energy-integrated mine management

LōD is more than a mining management tool with energy bolted on. **Energy is the core of the product**, split into three layers that work together.

DATA

Interprets real-time and historical ERCOT, SPP, MISO, and PJM signals into decisions you can act on, not raw feeds.

STRATEGY

A human-led service that builds a custom energy plan alongside your existing QSE or REP.

EXEC

An advanced IoT platform that manages ASICs, fans, pumps, containers, and GPUs by aligning energy strategies with live grid signals, allowing up to 99% load curtailment instead of just 80%.

No replacements needed: LōD works with every REP, QSE, firmware, and mining stack. It provides data and automation through an **MCP Server** so any AI agent, developer, or operator can access grid signals and act on them, and features a **Hashrate Realization Index (HRI)** to benchmark fleet performance against real-world data rather than manufacturer nameplates.

WHERE IT FITS

Operators who want an IoT solution with a dedicated energy layer that unlocks revenue streams, and works alongside other mining and power vendors.

Feature comparison

Capability	L2D	BRAIINS	 Luxor	OBM *Foreman
ASIC monitoring & remote control	Yes, native	Yes, native	Yes, native	Yes, native
Firmware / per-chip tuning	Not offered (firmware-agnostic)	Yes (Braiiins OS+)	Yes (LuxOS)	Not offered (firmware-agnostic)
Mining pool offering	Lincoln Pool	Braiins Pool	Luxor Pool	Pool-agnostic
Energy / grid participation	Advanced multilayer strategy and 13 QSE/CSP integrations	Price-responsive strategies and QSE/CSP integrations	Price-responsive and 4CP strategies; acts as REP/QSE from a single supplier	Price-responsive strategies and QSE/CSP integrations
Financial tools (hedging, financing)	Not offered	Not offered	Yes, hashrate derivatives and hardware financing	Not offered
Fleet-wide AI analytics	MCP Server with access to all analytics, fleet performance and grid data	Not offered	Not offered, performance-based automation	Foreman Intelligence (added 2026), AI-powered querying and dashboards
Compliance certification	SOC 1 & SOC 2 Type II	SOC 1 & SOC 2 Type II	SOC 1 & SOC 2 Type II	SOC 1 & SOC 2 Type II

As of July 2026

Architecture & transparency

Factor	L̥O̥D	BRAIINS	 Luxor	OBM *Foreman
System design	Modular, “white-box”	Firmware-centric mining stack	Proprietary, “black-box”	Operations-centric management
Integration	Every IoT device on site (ASICs, sensors, meters, GPUs, containers) plus all pools and firmwares	ASICs running Braiins OS; also stock firmware and other pools	ASICs running LuxOS, limited stock firmware, all major pools	All ASICs, firmwares, pools, plus other site equipment
Visibility	Full transparency into energy logic, rules, and actions	Transparent; CSP, firmware, performance, pool metrics	Device performance, hash economics, energy market	Transparent; CSP and device performance

Automation & decision-making

Factor	L̥O̥D	BRAIINS	 Luxor	OBM *Foreman
Decision driver The input that triggers actions.	Grid conditions, energy market and real-time signals from QSE/CSP, ASIC performance, site constraints	QSE/CSP integration and ASIC performance metrics	Grid and energy market with mining economics and site constraints	QSE/CSP integration, operational constraints, grid signals
Automation level How independently it operates.	Deterministic, real-time monitoring, validation, and mining economics	ASIC-level tuning automation	ASIC-level tuning; performance and power-profile automation	Performance and operational automation

Data & energy intelligence

Factor	Lod	BRAINS	 Luxor	OBM *Foreman
Grid connectivity Direct to grid operator, or via a third party.	Direct ISO and market integration	Limited nodes and ISOs	ERCOT only	Limited nodes and ISOs
Analytics focus What the data helps you optimize.	Mining and energy performance and efficiency	Mining performance and efficiency	Hashprice, market data, performance	Performance and uptime reporting
Visibility layers How many layers show data.	Grid, site, device, pool	Site, device, and pool	ERCOT grid, device, and pool	Site, device
Key insights The numbers it hands you.	Mining economics, pool metrics, compliance and ROI	Mining economics, pool metrics, compliance and ROI	Mining economics, pool metrics, compliance and ROI	Mining economics, compliance and ROI
Grid readiness Built-in grid-program participation.	Complete integration	High integration and automation	ERCOT-only integrations	Complete integration

03

The stack question: open or closed

Every platform now touches energy. The real question is how deep that strategy goes.

THE ENERGY FEATURE

How deep does it go?

Since energy has become a feature every one of these platforms is racing to add, all support and provide CSP/QSE integration. The question to ask is not “does this platform touch energy,” but “**how deep is its energy strategy.**”

- **Luxor Energy** has just been introduced and requires you to become Luxor's retail power customer. This feature is sold separately.
- **Foreman's power control** is an additional paid module bolted onto a proprietary platform.
- **Braiins' energy participation** runs through a partner CSP, which means a third relationship on top of Braiins is needed. The module is sold separately.
- **LōD** is built to sit alongside any REP, QSE, or firmware you already run. You don't have to leave your firmware or switch retail providers to get grid-aware automation. Since energy is the core of the product, it is included in the platform.

04

What this **actually** costs

Public pricing for the paid tiers, and why a flat number is never the whole story.

Some companies offer a free tier with basic miner monitoring and dashboards. Since we're comparing solutions for sites over 5 MW, our analysis focuses on tiers that include execution and automation, such as demand response and smart curtailment.

Pricing model	LōD	BRAVINS	 Luxor	OBM *Foreman
Pro / Enterprise tier Entry price; scales with load and add-ons.	Starts at \$250 per MW / month; may rise with energy-efficiency needs, load, and market exposure	Pro plan starts at \$250 per MW / month	Commander Pro at \$100 per MW/month, or +0.25% hashrate added to Luxor pool rate	Essential tier starts at \$0.60/miner/month. *Curtailment, automation, and compliance features are Enterprise add-ons

BOTTOM LINE

None of these prices, LōD included, should be considered set in stone, because mining and energy costs scale with load size and market. Get a quote from all four vendors against your actual load before deciding. Anyone who gives you a flat number without knowing your site size and market is guessing.

 **Get a quote for your site**

Feature comparison (Pro / Enterprise plans)

L̄OD

- ✓ Fleet monitoring & control (ASICs, PDU, container, GPU, sensors)
- ✓ Energy orchestration (DAM, RTM & 4CP)
- ✓ Energy strategy & curtailment
- ✓ Inventory Management
- ✓ Work Orders
- ✓ Revenue, energy & operational reports
- ✓ Governance & compliance
- ✓ Hashrate Realization Index (HRI)
- ✓ AI Integration (MCP)
- ✓ Role-based access & secure APIs

BRAVINS

- ✓ Fleet dashboard & monitoring
- ✓ Workers & physical sitemap
- ✓ Energy consumption & billing reports
- ✓ Hosting client management
- ✓ Issue tracking & ticketing
- ✓ Team roles & permissions
- ✓ Controlflow automation (triggers & schedules)
- ✓ Strike-price curtailment
- ✓ Demand response integration
- ✓ Priority support

Luxor

- ✓ Fleet dashboard & miner health
- ✓ Miner management & LuxOS deployment
- ✓ On-site agent deployment
- ✓ Fleet-wide bulk actions
- ✓ Automation rules (triggers & schedules)
- ✓ Physical sitemap & asset inventory
- ✓ Intelligent Miner optimization
- ✓ Ancillary services participation
- ✓ Priority support

OBM

- ✓ Fleet monitoring & telemetry
- ✓ Power management & controls
- ✓ Alerts & issue detection
- ✓ Infrastructure integrations
- ✓ Remote miner power controls
- ✓ Role-based user management
- ✓ Asset inventory & tracking
- ✓ Foreman Intelligence (add-on)

Feature depth matters more than feature count

At first glance, many mining management platforms appear remarkably similar. Most include dashboards, automation, inventory, reporting, and power management. But sharing the same feature name does not mean delivering the same capability. When evaluating a platform, look beyond the checklist and ask how each feature works in practice. **The next pages break this down.**

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Comparison based on publicly available documentation for each platform's paid mining-management offering as of July 2026. Features may change over time. Optional services and custom enterprise agreements are not included unless listed as part of the standard paid platform.

Same name, different capability

Sharing a feature name does not mean sharing a capability. Here is how the shared features actually differ in practice.

AUTOMATION

One platform may only allow scheduled actions; another supports real-time triggers, recurring workflows, and conditional logic based on miner health, temperature, or energy prices.

QUESTIONS TO ASK

- › React to live events?
- › Combine multiple conditions?
- › Support recurring schedules?
- › Act differently by site condition?

INVENTORY

For some it is simply a list of miners. Others provide a full system of record:

- › Procurement tracking
- › Deployment history
- › Rack assignment
- › Maintenance records
- › Lifecycle management
- › Ownership tracking

The real question is whether it becomes an **operational system of record**.

POWER MANAGEMENT

Nearly every platform advertises it, but implementation varies.

SOME FOCUS ON

- › Manual power controls
- › Rebooting miners
- › Firmware profiles

OTHERS AUTOMATE USING

- › Electricity prices
- › Demand response events
- › Market signals & profitability

REPORTING

Ask what is actually included:

- › Operational KPIs
- › Financial performance
- › Energy consumption
- › Hosting billing
- › Historical trends
- › Exportable reports & dashboards

It can range from a few charts to a **full analytics platform**.

SITE VISUALIZATION

Some sitemaps display only rack locations. Others overlay:

- › Hashrate
- › Temperatures
- › Airflow
- › Power consumption
- › Fault status

Overlays let operators **detect spatial issues faster**.

AI & OPTIMIZATION

Optimization can mean very different things:

- › Recommending actions
- › Changing miner profiles
- › Optimizing on profitability
- › Responding to market prices
- › Site-wide energy strategies

The **decision logic** matters more than the label.

The best platform isn't the one with the longest feature list. It's the one whose capabilities best match the **operational challenges of your site.**

Before selecting a platform, ask vendors to demonstrate how key workflows operate in a real environment, not just what appears on a pricing page.

05

Where each platform actually wins

Match the tool to your bottleneck. Here is the honest fit for each.

BRAINS

Choose it if you want **deep ASIC-level tuning** and don't mind running proprietary firmware to get it.



Choose it if you want **one vendor** for pool, firmware, hardware financing, and retail power, and you're comfortable with that consolidation.

OBM

Choose it if your techs are already **trained on Foreman** and want a familiar system for daily fleet uptime, adding modules as you grow.



Choose it if you want a technician-friendly platform with **24/7 support, new revenue streams**, and an advanced energy strategy that plugs into whatever mining and power stack you already run.

Not sure which combination fits your site? Most operators run two or three of these together.

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06

Where this is headed

Energy is where the margin is, and where every platform is racing next.

The differences that feel decisive today are becoming table stakes

Every platform in this guide is converging on the same frontier. Firmware, pools, and fleet tooling are commoditizing. Three shifts are redrawing the map for operators running 5–50 MW.

01 · THE STACK IS CONSOLIDATING AROUND AI

Every company has shipped an AI or advanced-automation layer in the past year, so it is worth having a direct conversation with each vendor about their AI capabilities and roadmap. Natural-language querying of fleet and market data, predictive tuning, and agent-driven control are moving from novelty to expectation. The platforms that expose their **data and actions to AI agents**, not just dashboards to humans, will compound fastest.

02 · ENERGY IS THE REAL CONSTRAINT

For any sub-20 MW site, the power bill dwarfs the cost of software. As grids tighten and interconnection queues stretch into years, the operators who treat energy as **programmable**, curtailing, shifting, and selling flexibility back to the grid, protect the margin everyone else leaves on the table.

03 · CAPACITY & FLEXIBILITY DEFINE THE NEXT DATA CENTER

Bitcoin mining, AI training, and HPC are converging on the same scarce resource: interruptible power at scale. The winning infrastructure is **flexible by design**, able to ramp load in seconds, qualify for demand-response revenue, and shift capacity between workloads without a rebuild.

Every platform on this list is adding energy features, because energy is where the margin is. That convergence backs up the bet LōD made in 2021: **whoever manages the energy layer well controls the largest line item in a mining operation's P&L**, and the option value of every kilowatt.

THE BOTTOM LINE

**No platform here is objectively
“the best.”**

It depends on your site's needs and your business model. Braiins, Luxor, and Foreman are strong at what they were built for: firmware, hash economics, and fleet operations.

LōD is designed to enhance daily site operations and profitability. It increases energy efficiency through deterministic automation, optimizing hash time and creating **new revenue streams**.

Turn the page → book a 30-minute strategy call.

WANT A SECOND OPINION SPECIFIC TO YOUR SITE?

Book a 30-minute strategy call

We'll tell you honestly whether LōD is the right layer for your stack, or whether one of the platforms in this guide solves your problem better.



Message us on Telegram



Book a meeting

Prefer email or a scheduled call? Book a slot at lod.io.