

Hydro Site Implementation Checklist

A printable field checklist for hydro-cooled Bitcoin mining site planning, infrastructure prep, commissioning, and pre-launch signoff.

Format Five-phase rollout	Best for Site planning through go-live	Final gate Pre-launch audit before energizing
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How to Use This Checklist

- Use this checklist during planning, procurement, commissioning, and the final pre-launch review.
- Assign an owner for each line item before equipment arrives on-site.
- Do not energize the fleet until the Phase 5 audit is complete and documented.

Phase 1: Feasibility and Site Assessment

- Confirm access to a stable, high-flow water source and assess seasonal variability or drought risk.
- Identify available power capacity, interconnection lead times, and the economics of that power.
- Review climate, zoning, noise regulations, discharge rules, and environmental compliance requirements.
- Verify internet access and latency to mining pools before the site becomes construction-committed.

Phase 2: Infrastructure and Facility Preparation

- Secure property with the right zoning and enough room for container placement, tower access, and future expansion.
- Install transformers, switchgear, PDUs, fiber, routing equipment, and facility security before container arrival.
- Prepare cooling-tower connections and source coolant with the right antifreeze and corrosion-inhibitor profile.
- Use UL/CUL-certified components throughout so the system is easier to insure, inspect, and maintain.

Phase 3: Container Setup and Equipment Deployment

- Place the container on a leveled pad and connect it to both electrical and cooling infrastructure.
- Prime the loop, fill coolant, pressure test the system, and verify balanced flow across the deployment.
- Install miners in batches, configure dashboard access, and validate inlet and outlet temperature behavior before go-live.
- Run diagnostics on every ASIC before the fleet is declared production ready.

Phase 4: Maintenance and Monitoring Setup

- Set recurring filter cleaning, coolant testing, quarterly inspections, and replacement-part inventory thresholds before the site reaches steady state.
- Stand up IoT or SCADA-style alerting for flow, pressure, temperature, and miner-level efficiency data.
- Track uptime and J/TH behavior weekly so maintenance is driven by trend data, not anecdotes.

Phase 5: Operational Optimization and Pre-Launch Audit

- Cooling loop: leak and pressure tests pass with stable regulated flow.
- Water quality: fluid is filtered, treated, and pH balanced.
- Miners and container: units are powered, cooled, reachable, and diagnostics are complete.
- Staff readiness: emergency procedures and shutdown logic are understood.
- Monitoring: dashboards and alerts are active before full production starts.

Economic Review Before Full Production

Once the technical audit is complete, revisit BTC price assumptions, energy cost, flexible-load contracts, coolant maintenance costs, and seasonal operating conditions so the deployment stays grounded in the economics it was approved under.

Need a deployment review?

Schedule a call with MiningStore at new.miningstore.com/schedule-a-demo/ to review site readiness, hydro hardware fit, and commissioning gaps before go-live.