AI Power & Site Readiness

Company: xAI

Site / campus: Colossus (Memphis / Southaven)

Phase: Phase 1

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Verdict

This site scores very high on the composite, driven by already-in-service schedule signals and strong deliverable capacity signals, but emissions intensity is above the peer cohort median. Renewable content is shown as a state grid-mix proxy. The final score is a weighted blend of schedule, deliverability, cost, carbon, and reliability views.

Site Readiness Index

91% index

Proxy | Confidence 80% | Better than median

Benchmark

Median: 45% · Top quartile: 54%

Top drivers (why)

1

Power deliverability strength

Deliverable capacity by target is above the peer cohort top quartile, supporting strong capacity positioning.

2

Schedule outlook (time-to-power)

In-service hit probability is 1.0 and expected slippage is 0 days (already in service). Target online window is treated as a proxy milestone; interpret this as an “expected slippage only” posture anchored on realized operations.

3

Carbon intensity headwind

Expected emissions intensity is worse than the peer cohort median, and renewable content (grid-mix proxy) is below the median; contracted renewables posture is not yet captured.

KPI snapshot (median / top quartile benchmarks)

KPI	Current	Benchmark (Median / Top quartile)	Confidence
Site Readiness Index Current	**91%** index Proxy Better than median	45% / 54% median / top quartile	**80%** proxy-heavy
Probability of Hitting In-Service Date Current	**100%** Inferred Better than median	30% / 46% median / top quartile	**88%**
Schedule Slippage (Days) Current	**0** days Inferred Better than median	341 / 456 median / top quartile	**85%**
Deliverable Capacity by Target (MW) Current	**150** MW Current Better than median	44.73 / 68.89 median / top quartile	**81%**
Blended Effective Power Rate ($/MWh) Current	**$118** USD/MWh Computed	— / — median / top quartile	**81%**
Expected Emissions Intensity ($kgCO_2e/MWh$) Current	**409.73** kgCO2e/MWh Proxy Worse than median	348.95 / 458.42 median / top quartile	**77%** proxy-heavy
Reliability Risk Index Current	**21%** index Computed Better than median	44% / 64% median / top quartile	**63%**

Total Delay Cost Exposure ($) Current	**$0** Proxy	— / — median / top quartile	**70%** proxy-heavy
Renewable Content (%) Current	**3%** Computed Worse than median	11% / 23% median / top quartile	**95%**

Next step

Confirm any contracted renewables posture and validate the Phase I operational milestone used as the proxy target window, then refresh this snapshot.

Confidence & gaps

- Target online window is captured via a proxy milestone (Phase I full operational capability on 2025-05-01); schedule slippage remains an expected-slippage-only posture anchored on already-in-service evidence.
- Renewable content is a proxy based on state grid renewable generation share; it is not a measure of contracted renewable coverage for this subject.
- Total delay cost exposure is a directional proxy derived from schedule slippage and cost posture; treat as assumptions-heavy.

As-of: 2026-02-03 · **Benchmark cohort:** AI Supply Chain | US | 2025 Q3
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