

AI Power & Site Readiness

Company: xAI

Site / campus: Colossus (Memphis / Southaven)

Phase: Phase 1

[Submit correction](#)

[Download PDF](#)

[Evidence](#)

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 (kgCO₂e/MWh) Current	409.73 kgCO ₂ e/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%

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

Outside-in, non-binding. Subject to validation.

subject_key: xai-colossus-memphis-southaven-phase-1 · contract_version: 1.0.0

Inventurist

Decision-grade KPIs.
Powered by AI.

Product

Customers
Solutions
Pricing

Company

About
Contact

Legal

Privacy

[Terms](#)

Contact

sales@inventurist.com

+1 415 562 7977

Fb X in

© 2026 Inventurist Inc. All rights reserved.