

GR-2023-16 | 2023 LENS | MALAYSIA • SINGAPORE • ASIA

AI data centres: power is only the beginning

A utility allocation is the start of a feasibility study, not proof of saleable computing capacity.



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THE EVIDENCE

IEA estimates data-centre electricity consumption at 415 TWh in 2024 and forecasts roughly 945 TWh in 2030 in its 2025 base case.

THE BUSINESS IMPLICATION

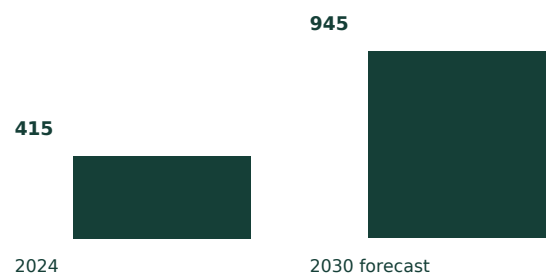
The 2023 lens maps the move from conventional colocation to AI-intensive demand. Separate utility MW, IT MW, cooling design and rack density. Stage construction against credible customers and assess operator obligations before purchasing compute equipment.

WATCH THE DOWNSIDE

Grid timing, water, fibre routes, GPU supply and customer concentration can delay cash flow.

Global data-centre electricity demand

Unit: TWh



IEA Energy and AI (2025), base case. Forecast vintage identified; not a local offtake commitment.

DECISION FRAMEWORK

Capacity	Utility MW divided by PUE
Demand	Customer workload and contract
Delivery	Power, cooling and commissioning

COMMISSIONED SCOPE

Site feasibility, power-to-IT capacity bridge, operator RFP and phased commercial model.

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SOURCES & METHOD

1. IEA, Energy and AI (2025)

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