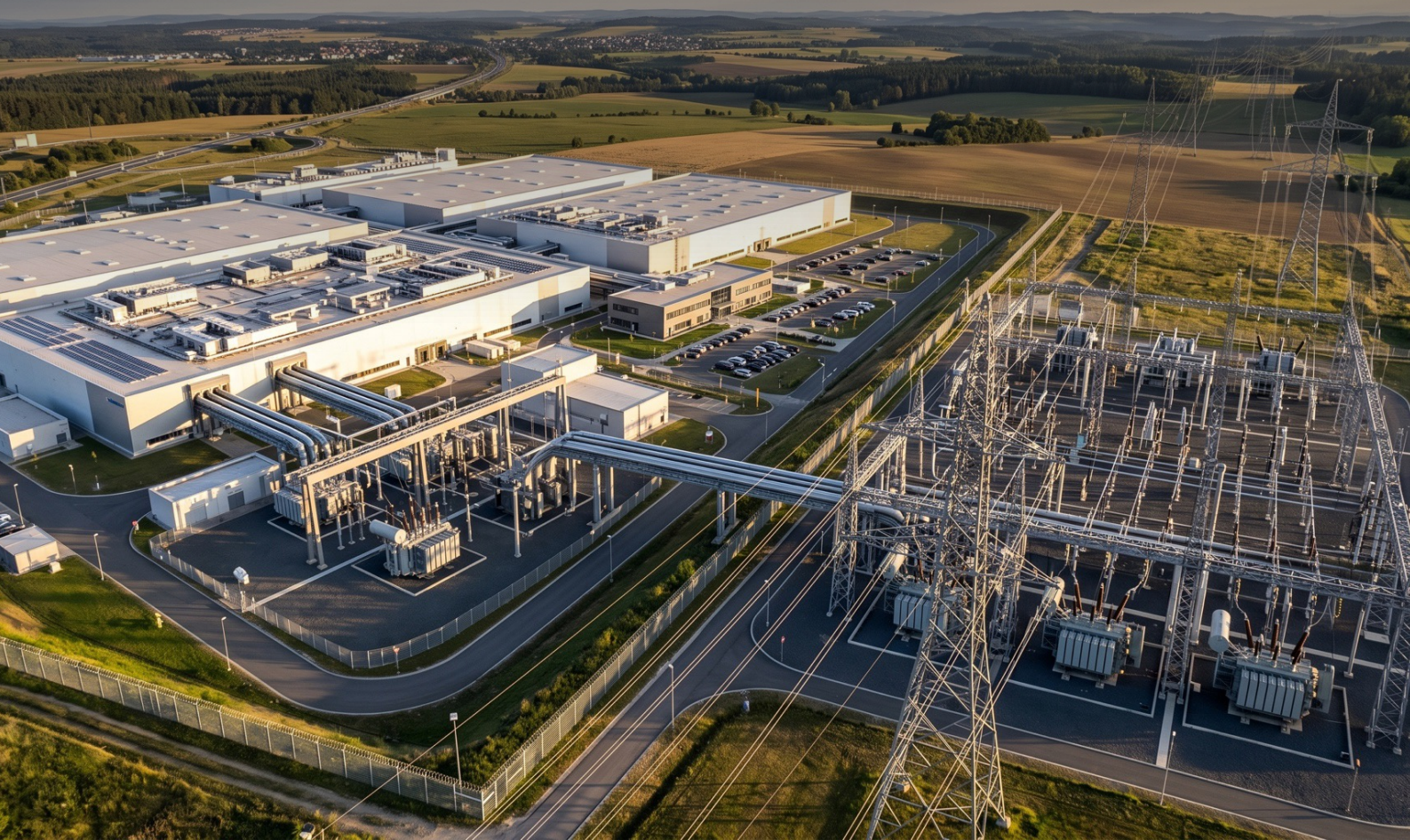
CYIENT
Nothing Less

Powering Data Centers. Engineering What's Next.

Full-lifecycle power and facility engineering for greenfield and brownfield data centers.



The Challenge

Data center growth is outpacing the power and cooling capacity of grids and legacy facilities. For both brownfield expansion and greenfield development, power now determines how quickly and reliably capacity can come online.

Four priorities that are reshaping investment decisions

Brownfield scale-up

Expanding capacity within constrained space, power, and infrastructure.

Greenfield planning

Planning three to five years ahead while scaling with demand.

Grid reliability

Bridging grid interruptions and generator start-up without downtime.

The right energy mix

Optimizing grid and on-site generation for resilience, cost, and sustainability.

No single energy source can address all four. The answer is an integrated power architecture, where primary generation, grid supply, storage, and backup work as one system. Getting that balance right takes engineering depth across every source and the wider facility.

One Partner. Complete Engineering Accountability.

Cyient delivers integrated power and infrastructure engineering for brownfield and greenfield data centers. Energy-source agnostic, we design the right architecture across grid, thermal, nuclear, LNG, renewables, BESS, and UPS based on load, location, resilience, and growth priorities.

Our scope extends beyond power to site surveys, cooling and HVAC, civil and structural engineering, and delivery across the full project lifecycle. We support hyperscalers, data center operators, power OEMs, EPCs, and cooling and HVAC providers.



Engineering across the Entire Energy Spectrum

Power source	Role in the data center	How Cyient helps
Grid connection	Primary or secondary supply	Power availability assessment and HV/LV distribution design
Modular nuclear	Steady, carbon-free baseload as a primary source	Nuclear engineering backed by 15+ years of experience
LNG and gas	Flexible, dispatchable generation aligned to demand	Power plant design, integration, and value engineering
Solar and wind	Clean on-site generation	Renewable and hybrid power integration, microgrid-ready design
BESS and UPS	Ride-through continuity and renewable energy storage	Storage and UPS sizing for resilient power architectures
Diesel and thermal	Standby and backup generation	Backup and failover architecture aligned to Tier standards

Across the Data Center Lifecycle

Lifecycle stage	What we do
Feasibility and site survey	Site feasibility, surveys, power availability, and sourcing strategy
Contracting	Owner's engineer, technical advisory, value engineering, and EPC collaboration
Concept design and pre-FEED	Concept design, power architecture, and investment estimates
FEED	Front-end engineering design, specifications, and procurement support
Basic and detailed design	Integrated electrical, mechanical, cooling, HVAC, civil, structural, controls, and BIM engineering
Commissioning and operations	Commissioning readiness, documentation, monitoring, and optimization

Proven in the Field

Data center- Strategic partnership with AVK, Europe

300+ MW Energy powering AI Data Centers

Owner's engineer for data center operations in the USA

Program managing EPCs, OEMs, & vendors for timely project completion

Powering a green hydrogen plant in Norway

Owner's engineer for 20 MW hydrogen plant in Norway

LNG and gas power

Powering human space ambitions with 2.2 MTPA LNG plant

Nuclear power

Designed & installed control system for 1000+ MWe Plant

On-site power generation

Designing and Balance of Plant integration for 1000+ Power Plants

Why Us

Deep engineering heritage	One team, one plan	Energy-source agnostic	Full lifecycle coverage	Beyond power
30+ years across plant, energy, and digital infrastructure; **15+** years in nuclear.	Integrated power and facility engineering for greenfield and brownfield projects.	Expertise across grid, thermal, nuclear, LNG, renewables, BESS, and UPS.	From feasibility and advisory through design, commissioning, and operations.	Integrated cooling, HVAC, civil, and structural engineering.

Build resilient capacity faster. Talk to our experts today.

Cyient is a global lifecycle engineering services company powering mission-critical industries from design to aftermarket across products, plants, and networks. With 300+ customers and 15,000+ associates across 30+ countries, we combine human expertise, deep domain knowledge, and AI to deliver intelligent engineering for every lifecycle across Aerospace and Rail, Automotive and Mobility, Connectivity, Energy, Healthcare, Mining, Utilities, and beyond.

To learn how we deliver exemplary outcomes, nothing less, visit www.cyient.com

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