

Don't let a lack of power and cooling stall your AI implementation

Empowering NVIDIA AI Solutions

Schneider Electric: Your partner in power, cooling, and infrastructure management

The demand for AI is skyrocketing.

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AI models and applications process vast amounts of data.

Models are rapidly growing and becoming more complex.

This requires more computational power.

*Source: Schneider Electric White Paper 110, "The AI Disruption: Challenges and Guidance for Data Center Design."

What challenges does this bring?



Rack density:

Fitting more IT gear into each rack is imperative to keep latency low and efficiency high.



Keeping it cool:

More power equals more heat. AI clusters may require advanced cooling techniques, such as liquid cooling.



More power in smaller spaces:

It's a challenge to get enough power and back-up power into each rack.



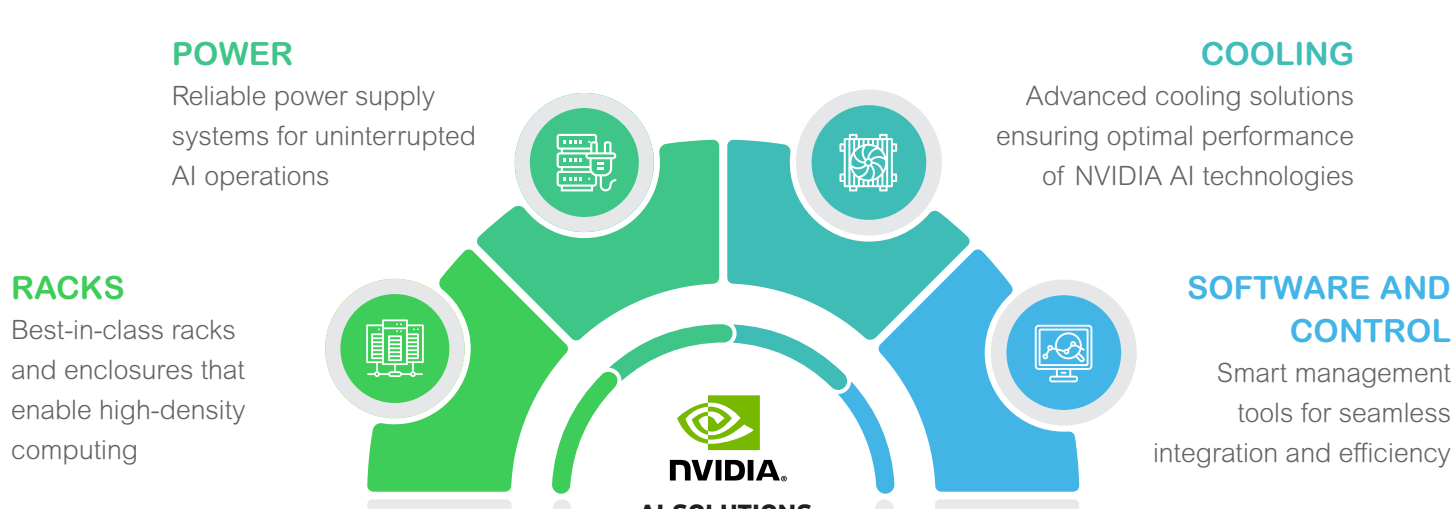
The big picture:

Remote monitoring and management of the physical infrastructure is more important than ever.

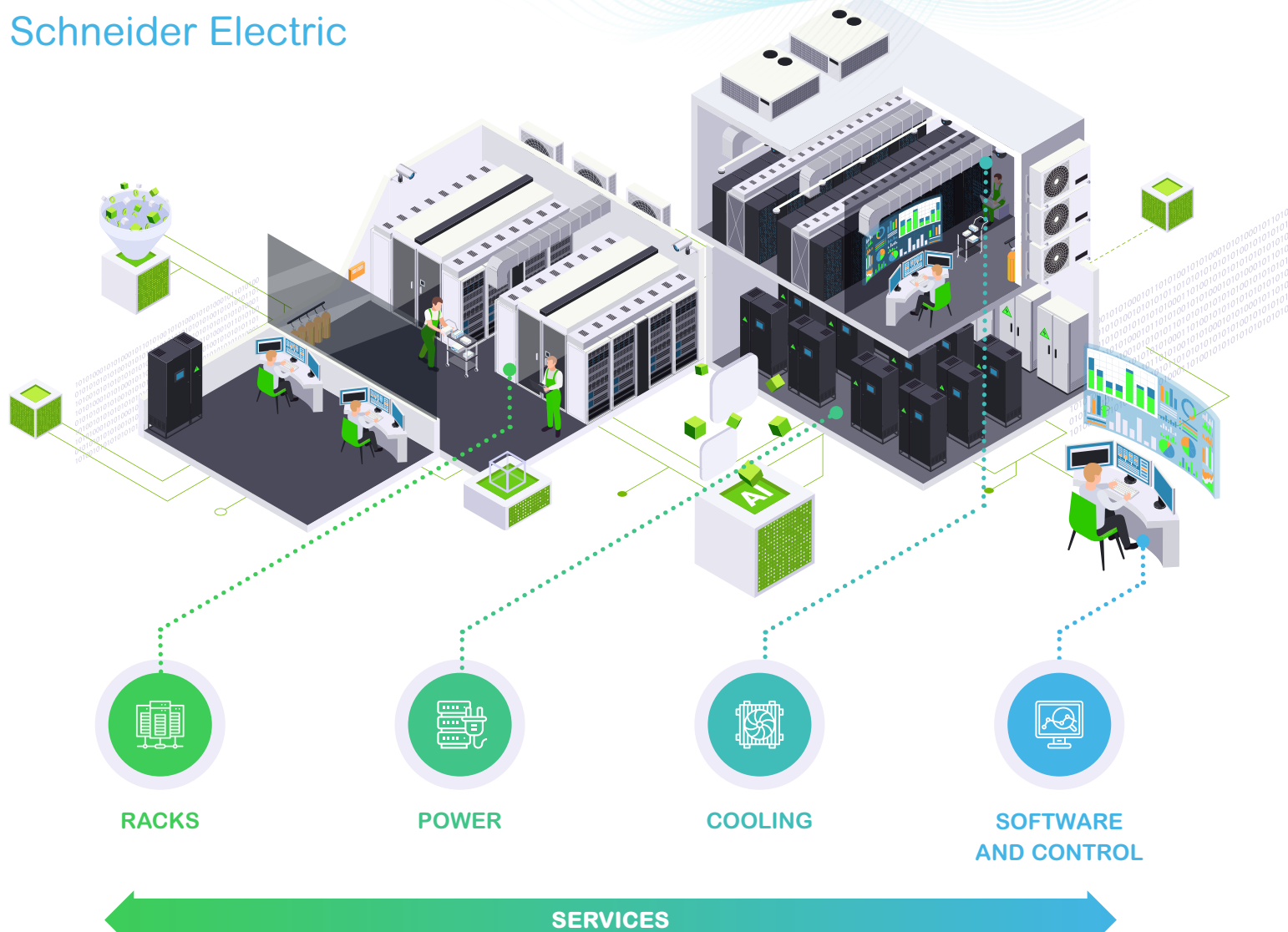
The verdict? Basic data center infrastructure just won't cut it.

IT professionals must consider the advanced power and cooling needs of AI workloads before designing and building an AI solution.

Schneider Electric supports NVIDIA AI solutions with the infrastructure you need.



AI data center solutions from Schneider Electric



Success story: Driving energy resource efficiency and savings with actionable data

Customer challenge:

To efficiently manage its resources and stay ahead in a competitive market, Blackstone required actionable energy and sustainability data across all operations.

Solution:

One of the world's largest private equity firms, Blackstone worked with Schneider Electric to build an aggressive energy-management and sustainability strategy. Powered by NVIDIA's HGX™ 100, which is three times faster than the previous model, the customer upgraded to a higher-voltage power distribution system to support enhanced rack PDUs. They now use EcoStruxure™ Resource Advisor to capture and normalize energy and utility data. Experts from Schneider Electric's Energy & Sustainability Services help interpret the data and pinpoint opportunities for efficiency improvements. With this data, Blackstone can better negotiate utility and other contracts, enabling them to get the right energy source at the lowest possible rates.

Results:

Active energy management programs are now in place at 20+ portfolio companies, driving tens of millions in energy savings.



NVIDIA is a pioneer in accelerated computing — and a world leader in energy-efficient AI solutions.



Advanced computing tasks demand tightly linked GPU clusters with optimized software support. The HGX 100 is up to the challenge by providing:

- 30x faster and 3x more energy efficient at LLM inference than its predecessor
- 3x lower TCO and requires 5x fewer server nodes
- 20x more energy efficient than CPUs for HPC and AI workloads

Schneider solutions to empower your AI data center



RACKS

- **Quality built racks** that come in large sizes and load capacities to accommodate high-density AI servers
- **60 AMP Rack PDUs** to get more power into each rack, with higher AMPs planned for the future
- **Coming soon: Rack manifolds** to easily connect servers to cooling systems



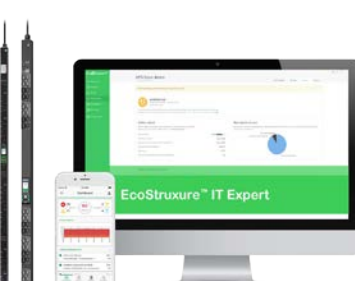
POWER

- **Rack PDUs that can support 35kW** to allow morespace for your IT equipment and cabling
- **50–100kW rack PDUs** planned for the future
- **415 volts** often required



COOLING

- Expertise and all required components to deploy the right **air or liquid cooling system** for your AI clusters, including:
 - Aisle and rack containment
 - Close-coupled cooling
 - Liquid cooling support like CDUs



SOFTWARE AND CONTROL

- **EcoStruxure platform** for monitoring and control — so you can optimize power utilization, get alerts to potential problems, and more
- **A full suite of DCIM solutions** for planning, modeling (including digital twin), and managing your data center operations.



Contact your Connection Account Team for more information.

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