TRYSTAR



WHY MORE DATA CENTER PROJECTS ARE TURNING TO E-HOUSES

Data center development is accelerating.

The rapid rise in the proliferation of new data centers is driven by growing demand for cloud computing, AI, and other digital technologies. And as facilities grow in size and complexity, so does the pressure to deliver the power infrastructure they need, quickly and reliably.

Speed to power has become a critical consideration.

Developers need ways to shorten construction timelines while managing increasingly complex electrical systems. That's helping drive interest in prefabricated power solutions that can be engineered, assembled, and tested offsite while data center construction moves forward in parallel.

40%+

OF DATA CENTER CONSTRUCTION SPENDING CAN GO TO ELECTRICAL PRODUCTS AND SYSTEMS.

SOURCE: EC&M

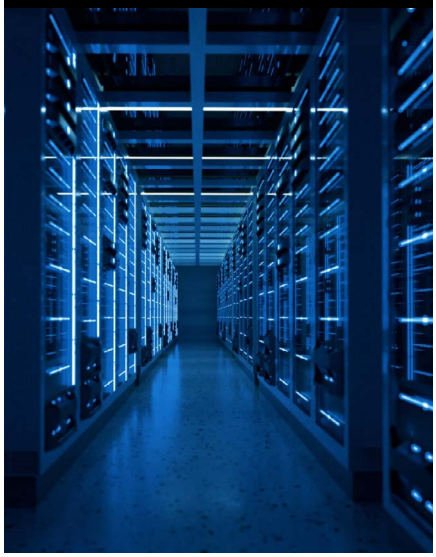
Power demands are reaching a whole new scale.

It's not just the number of data centers that's growing. The facilities themselves are getting bigger. Much bigger. Developments that once required tens of megawatts are being joined by massive projects demanding hundreds.

And with that growth comes a new level of complexity.

GLOBAL DATA CENTER ELECTRICITY WILL DOUBLE BY 2030

SOURCE: INTERNATIONAL ENERGY AGENCY



Delivering power to facilities of this scale requires increasingly sophisticated electrical infrastructure, careful coordination, and construction schedules that leave little room for delay.

That's where Trystar comes in.



We help customers solve complex power infrastructure challenges with prefabricated electrical houses, or E-Houses. But we do more than assemble equipment inside an enclosure. We also manufacture critical components, including control panels, switchboards, and Power Quality transformers. That gives us greater flexibility to customize solutions, streamline integration, and accelerate delivery.

From engineering and manufacturing to offsite testing, monitoring, and commissioning, Trystar brings more of the power system together in one integrated solution.

> "VERTICAL INTEGRATION IS KEY TO SCALABILITY. BY MANUFACTURING THE EQUIPMENT INSIDE OUR E-HOUSES, WE CAN BETTER SUPPORT CUSTOMERS AS THEIR POWER NEEDS GROW."
>
> **Acer Pahukoa,**
> Trystar,
> Regional Sales Specialist

We're already putting that approach to work on a data center project outside Austin, Texas, where Trystar manufactured the electrical equipment inside the E-House. As the customer's operations expand, additional units are being considered for a new site near Houston.

It's an example of how our engineering, integration, and manufacturing capabilities can support customers as their power infrastructure needs evolve.

Built for today. Ready for tomorrow's growth.

As data centers expand, their electrical infrastructure often needs to expand with them.

E-Houses can support phased development, allowing additional electrical infrastructure to be delivered as new buildings or computing capacity come online, provided the overall system is designed to accommodate growth.

They also offer opportunities to repeat proven configurations across multiple phases or facilities, creating greater consistency in how electrical systems are engineered, assembled, and deployed. For developers managing large projects, that flexibility can be especially valuable.

A faster way forward.

Building E-Houses offsite while data center construction moves forward can shorten project timelines. McKinsey research suggests modular construction can **reduce schedules by 20–50%**. Factory-integrated systems are tested before delivery and again during onsite commissioning.

More power. Less complexity.

As data centers continue to support the technologies shaping our future, we'll need to find smarter ways to engineer, integrate, and deploy increasingly sophisticated electrical systems.

Trystar brings the expertise and capabilities to help customers meet that challenge, from early planning through integrated delivery.

Planning a data center project or expansion? Let's talk about how Trystar can help bring your power infrastructure together.

TALK TO A TRYSTAR EXPERT →