TRYSTAR



## E-House Project Readiness Checklist

# THE RIGHT E-HOUSE STARTS WITH THE RIGHT QUESTIONS

## Know what to define, what to ask, and what your E-House partner can help you determine.

An E-House brings a lot of elements together. Power requirements. Equipment. Controls. Site conditions. Delivery. Integration. And the earlier you can account for how those elements work together, the easier it is to build the right solution.

**Use this checklist** to capture what you know, identify what still needs to be determined, and prepare for a more productive conversation with your E-House provider.

## Before you build an E-House, build your checklist.

### 1. START WITH THE BIG DECISIONS

Before getting into equipment and specifications, consider why an E-House may be the right approach and which project requirements have the least flexibility.

**Why consider an E-House instead of a site-built electrical room?** *(Select all that apply)*

- ☐ Meet a challenging project schedule
- ☐ Reduce on-site construction work
- ☐ Address space or site constraints
- ☐ Simplify equipment integration
- ☐ Not sure yet

### E-HOUSE AND OTHER COMMON TERMS

Depending on the industry, application, or provider, you may hear an E-House referred to by different names:

**E-HOUSE**
Electrical House

**PDC**
Power Distribution Center

**PREFABRICATED ELECTRICAL BUILDING**

**MODULAR ELECTRICAL BUILDING/ROOM**

**ELECTRICAL EQUIPMENT HOUSE**

While these terms are often used interchangeably, they don't always describe exactly the same configuration. For this checklist, we'll use **E-House** to refer to an engineered, prefabricated structure that brings power distribution equipment and supporting systems together in an integrated solution.

**Which project requirements are already fixed?** *(Select all that apply)*

- ☐ Completion or energization date
- ☐ Budget
- ☐ Footprint
- ☐ Equipment selection
- ☐ None have been finalized

## 2. PLAN FOR TODAY AND TOMORROW

An E-House needs to meet current power requirements, but decisions made now can also affect future changes.

**What will your E-House need to support when it first goes into service?** *(Select all that apply)*

- ☐ Current equipment and power requirements
- ☐ Backup or redundant power systems
- ☐ Connections to existing electrical infrastructure
- ☐ Still determining

**How are you planning for future needs?** *(Select all that apply)*

- ☐ Reserve space for future equipment
- ☐ Plan for additional modules later
- ☐ Need help evaluating the options

## 3. THINK ABOUT RELIABILITY AND OPERATING CONDITIONS

The E-House design needs to account for what happens during normal operation, equipment failures, and maintenance, as well as the conditions the building will face.

**What environmental conditions will the E-House need to accommodate?** *(Select all that apply)*

- ☐ Extreme heat or cold
- ☐ High humidity or moisture
- ☐ Dust or other airborne contaminants
- ☐ Wind/Load requirements
- ☐ Seismic requirements

## 4. CONSIDER DELIVERY, INSTALLATION, AND APPROVALS

Even a well-designed E-House needs a practical plan for getting to the site, being installed, and meeting applicable requirements.

**What site and delivery considerations have been addressed?** *(Select all that apply)*

- ☐ Transportation and site access
- ☐ Size or shipping restrictions
- ☐ Crane access and placement
- ☐ Foundation requirements
- ☐ Need help evaluating these considerations

*Continue Section 4*

**Which approvals or compliance requirements have been identified?** *(Select all that apply)*

- ☐ Applicable electrical and building codes
- ☐ Required equipment listings or certifications
- ☐ Inspections
- ☐ Project-specific owner requirements
- ☐ Not sure what applies

## 5. CLARIFY DELIVERY AND INTEGRATION

An E-House project may involve multiple suppliers and contractors. Defining responsibilities early can help avoid surprises later.

**Which responsibilities have been assigned?** *(Select all that apply)*

- ☐ Foundation and site preparation
- ☐ E-House delivery and placement
- ☐ Electrical connections
- ☐ Equipment integration
- ☐ Testing and commissioning
- ☐ Responsibilities still need to be defined

**Who will supply and integrate the equipment inside the E-House?** *(Select all that apply)*

- ☐ A single provider responsible for the integrated system
- ☐ Multiple suppliers with defined responsibilities
- ☐ A combination of suppliers; integration responsibility still needs to be determined
- ☐ Not sure yet

## 6. PREPARE FOR TESTING AND OPERATION

Testing before shipment helps identify potential issues before the E-House arrives on-site. It's also important to consider how the system will be monitored once operational.

**How will the E-House be tested before shipment?** *(Select all that apply)*

- ☐ Factory testing of equipment and systems
- ☐ Customer or third-party witness testing
- ☐ Testing requirements still need to be determined

**How will the E-House be monitored and controlled once operational?** *(Select all that apply)*

- ☐ Through existing facility monitoring or control systems (BMS/EPMS)
- ☐ Through a new monitoring or control system
- ☐ A combination of existing and new systems
- ☐ Still determining

*Continue to Section 7*

## 1. WHAT STILL NEEDS TO BE DETERMINED?

**What's your biggest unanswered question about your E-House project?**

## Bring your requirements. We'll help build the right solution.

You don't need to have every decision figured out before starting the conversation. Trystar brings engineering expertise and integrated capabilities to help you evaluate options, define requirements, and plan for what's next.

## HERE'S HOW WE CAN HELP

**Make the right decisions early.** Evaluate E-House versus site-built options, plan for future growth, and consider reliability and maintenance needs.

**Design for your application.** Account for equipment heat loads, environmental conditions, transportation, installation, codes, and approvals.

**Define scope and responsibilities.** Establish one source of accountability for engineering, construction, and integration, including third-party equipment.

**Prepare for a confident start-up.** Benefit from fully wired and factory-tested E-Houses, available witness testing, and integrated monitoring and controls.



**Bring us your power challenge and together we'll help move your project forward.**

**TALK TO A TRYSTAR EXPERT →**