

## Frequently Asked Questions

### What is needed for a basic Energy Automation System?

An Adapt Energy Panel, controllable breakers, a eGauge energy monitoring system (optional), and an optional energy storage system.

### How many Adapt Energy Panels are needed per project?

Typically, you will need one Adapt Energy Panel per battery storage unit.

### Is energy monitoring included with the standard Adapt Energy Panel?

The Adapt Energy software has energy monitoring built in. But you do need additional hardware to support it. Adapt Energy supports eGauge energy monitoring hardware. We will help you design and procure the proper eGauge devices and you can buy them from us.

### Does an Adapt Energy system require solar?

No. All the Adapt Energy functionality works with or without a renewable energy source.

### Where do I get the Adapt Energy Panel?

You can purchase the Adapt Energy Panel from PanTech Design.

### How do I get custom breaker control wire lengths?

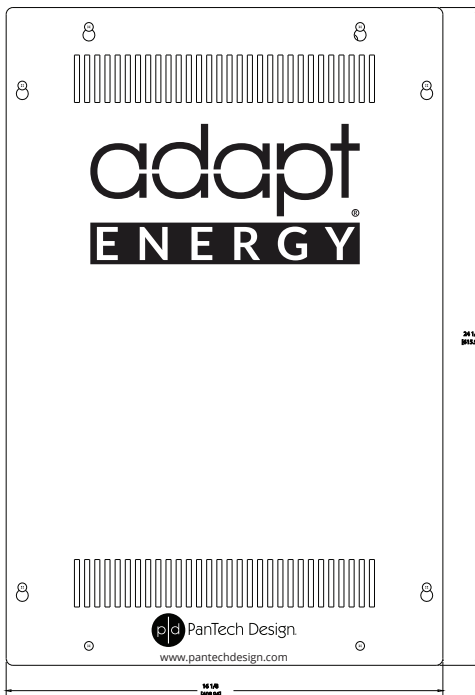
See our price sheet for custom wire length pricing and contact PanTech Design to order with your Adapt Energy Panel.

### Which controllable breakers do I need?

The breakers required are manufactured by Schneider Electric. They are SquareD breakers in the QOPLILC line in the Power Link series.  
Example Part Number: (single-pole 15 amp controllable breaker) [QO115PLILC](#)

### Where do I buy the controllable breakers?

The controllable breakers can be purchased from PanTech Design or a stocking distributor.



### What does a basic Adapt Energy system do?

Circuit breaker control, configurable power events, weather alerts, event scheduling, and optional energy monitoring with additional eGauge System.

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### Which breaker panel do I need for the QOPL Series Breakers?

Any [QO Series load center](#) from Schneider Electric can support the QOPL Series breakers. Please note that the QOPL Series breakers are not compatible with the Schneider Electric HomeLine series load centers.

### How do I know which loads require controllable breakers?

Controllable breakers are only needed for loads that need to be powered on and off during a grid outage. There are three types of loads:

**Massive Loads** should always be OFF in an outage situation (e.g. water heater, hot tub, etc.) Any load over 7,000 watts must be treated as a massive load. These may not need controllable breakers depending on the design.

**Critical Loads** should always remain ON in an outage. (e.g. fridge, network, router, Adapt Energy Panel, etc.) and do not need controllable breakers, in most cases.

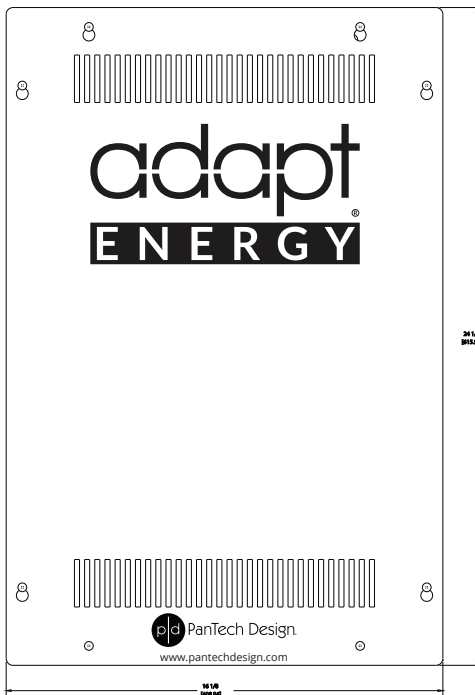
**Dynamic Loads** are loads the customer may wish to stay ON depending on the outage situation. These loads should be focused on when specifying the load center to ensure that your energy storage system can support both the Critical and Dynamic loads when they are all on.

### How do I know what size breakers I need?

Breakers will be sized based on an electrical design prepared by an electrician or electrical engineer.

### How do I eliminate the Protected Loads Panel (PLP)?

By placing controllable breakers in the main panel to dynamically manage loads in the event of an outage. Any load that needs to be turned ON in an outage (including critical loads) will require a controllable breaker.



### How do I find out more?

For more information, and to help us better assist you with next steps, please contact us at our website, [www.pantechdesign.com](http://www.pantechdesign.com).