

# BATTERY STORAGE

## FUEL FACTS

### What is Battery Storage?

Battery energy storage systems (BESS) allow for energy to be stored from renewable sources such as wind and solar. When the sun isn't shining or the wind isn't blowing it is important that users have access to a reliable grid BESS allows for this to happen. A 2025 study notes BESS expectancy to grow in Indiana from 225 MW currently to more than 2,000 MW by 2035. The study also noted the importance of these systems in continuing to support Indiana's energy goals, emphasizing BESS will enhance the reliability of increased energy demands.

### How do Battery Storage Systems Work?

BESS uses lithium-ion batteries to receive and store electrical currents. Individual battery cells are grouped together to form battery packs. Each system has cooling and fire systems to manage safety risks. The BESS study highlights that each battery storage facility is required to provide emergency response plans as a condition of project approval through Indiana Department of Homeland Security. Operators are required to provide training to first responders, offering instruction on proper responses to battery storage system emergencies.

### Benefits of BESS



Increased Energy  
Reliability



Assistance during  
Grid Outages



Optimization of  
Energy Costs



Support Carbon Free  
Energy Production



Growth in  
Job Creation

## DID YOU KNOW?

- BESS alleviates stress on commission lines, delaying the need for costly infrastructure changes or maintenance.
- In April 2025, Pike County established one of the largest installations within the Midcontinent Independent System Operator footprint, designed to deliver 200 MW of power during peak demand.

## Indiana Battery Storage System Transmission

### Transmission Lines

Voltage (kV)

— 345 - 555

— 555 - 765

### Battery Installations

Operating Status

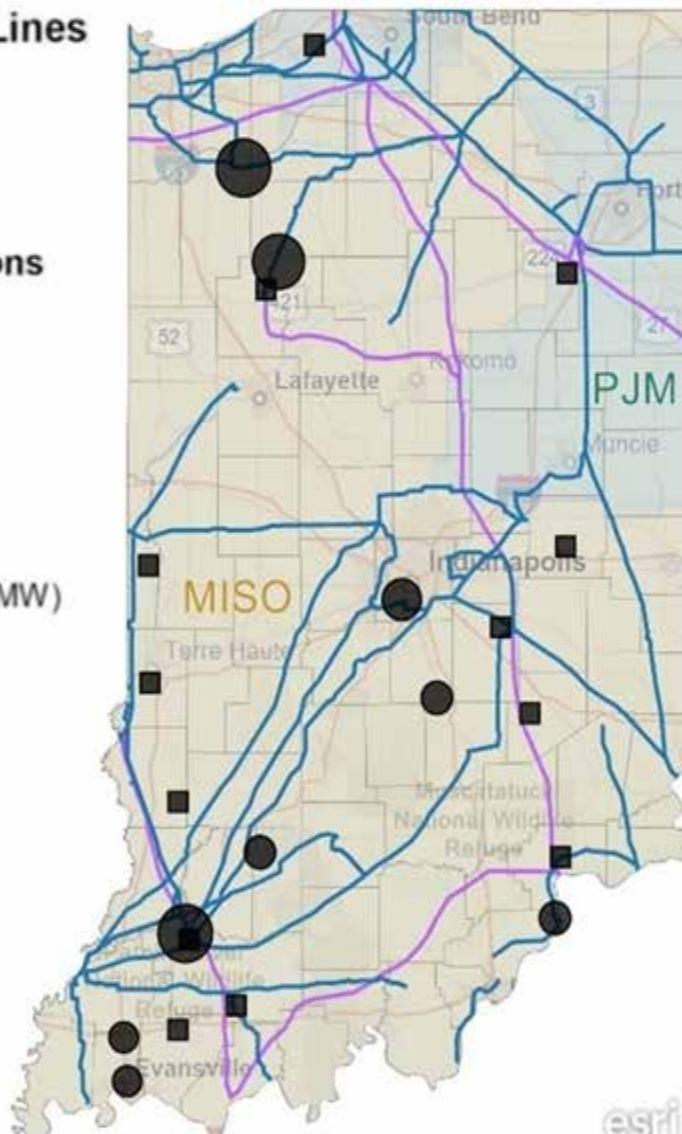
Planned

Operating

Operating Capacity (MW)

1.0

50.0



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By 2034, the U.S.  
is projected to have  
nearly 200,000 MW  
of installed BES  
capacity!



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