

# Energy Storage & Safety



## Safety is a Critical Aspect of the Entire Electrical System, from Power Lines to Your Outlets

Safety is fundamental to all aspects of the electrical system, including energy storage. Each component of the electrical system, from the power lines and transmission lines to the distribution and end use, must be designed and built to ensure the highest level of safety. This includes the use of safety protocols, training, and equipment to protect workers and the public. Energy storage systems are designed to be safe and reliable, with built-in safety features and multiple layers of protection to prevent accidents and ensure the safe operation of the system.

## Battery Energy Storage Uses Technologies We Rely on Each Day

Battery energy storage systems use technologies that are familiar to us, such as lithium-ion batteries used in electric vehicles and smartphones. These technologies are well-understood and have a long history of safe use. Battery energy storage systems are designed to be safe and reliable, with built-in safety features and multiple layers of protection to prevent accidents and ensure the safe operation of the system.

## Energy Storage Systems are Regulated & Held to National Safety Standards

Because energy storage is a new technology, it is subject to strict regulations and safety standards. The U.S. Department of Energy and the U.S. Consumer Product Safety Commission have established safety standards for energy storage systems, including requirements for fire safety, electrical safety, and environmental safety. Energy storage systems are designed to meet these standards and are subject to rigorous testing and certification before they can be used. This ensures that energy storage systems are safe and reliable, and that they meet the same safety standards as other electrical systems.



# Best Practices For Energy Storage Safety

## Energy Storage Projects Use Numerous Strategies to Maintain Safety

Energy storage facilities are able to safely store energy and manage the risk associated with them in all-in and energy-based systems. A key factor in manufacturing in all-in energy-based technology and storage facilities is the ability to safely keep them safe. The strategies can include:

### Pre-Installation Standards and Testing: