AREVON.

Health and Safety

Energy storage: A safe, sustainable solution for grid reliability, power outage reduction, and cost savings

Safety is a top priority at Arevon, beginning with installing the most advanced technology available today. Our energy storage systems use state-of-the-art Lithium Iron Phosphate (LFP) batteries, which we've adopted since their commercial availability, valued for their thermal stability and ability to withstand higher temperatures. Since their commercial introduction across North America, there have been no reported fire incidents.

Multiple Layers of Protection

Our battery storage systems are monitored 24/7 and include advanced protection and control features, such as a battery management system that automatically shuts down if conditions fall below optimal levels. Equipped with sensors to track temperature, the system can also deactivate batteries if they become too hot or too cold.

Safe, Regulated, and Reliable

Utility-scale battery energy storage systems are subject to strict regulations and rigorous testing, with certifications required before deployment — far beyond the standards for consumer-grade batteries.

At Arevon, we design, construct, and operate our energy storage projects in full compliance with national and international standards, including the International Fire Code (IFC), International Building Code (IBC), International Electrotechnical Commission (IEC), UL Solutions (formerly Underwriters Laboratories), and National Fire Protection Association (NFPA), ensuring the safety of our sites.

Arevon implements additional safety measures beyond regulatory requirements, including:

- Placing battery systems in steel containers outdoors.
- Real-time air quality monitoring sensors around the site perimeter.
- Onsite infrared cameras to detect temperature exceedances.
- Regular emergency response training for local fire departments.

Arevon's Vikings Solar-plus-Storage facility in Imperial County, California, featuring Megapack batteries. Megapacks utilize LFP technology, the safest and most advanced battery technology available today.

Partnerships for Emergency Preparedness

Our facilities strictly adhere to national safety standards and collaborate closely with local authorities, especially the fire department. This collaboration includes well-defined operating procedures for quick and efficient responses in case of any rare issues, as well as site design approval by the fire department.

Thermal Safety Protection

We use only advanced LFP battery technology, which is significantly safer than previous Lithium-Ion technologies. Since LFP batteries were introduced, there have been no reported fire incidents. In the event an incident were to occur, the battery systems are designed to contain and self-extinguish any fire within their steel enclosures.

Around-the-Clock Security

We employ advanced monitoring systems that operate 24/7. These systems include immediate overheating detection, allowing us to swiftly address any potential problems by shutting down equipment as needed, preventing issues from escalating.

Minimal Noise

We prioritize minimizing noise impact to ensure a peaceful coexistence with the community. Our battery storage facilities are intentionally designed for quiet operation. The equipment within the facilities has minimal moving parts, which inherently reduces noise. Additionally, our containers are designed to effectively muffle sound, preventing any potential noise pollution.

Fewer Power Outages

Energy storage enhances grid resilience, keeping the lights on and shielding homes and businesses from costly and dangerous brownouts and blackouts. By stabilizing the grid against extreme weather and demand surges, energy storage not only prevents disruptions but also strengthens safety, saves billions of dollars, and helps protect lives.

Arevon's energy storage systems use state-of-the-art LFP batteries, which we've adopted since their commercial availability, valued for their thermal stability and ability to withstand higher temperatures.

"Safety is Arevon's top priority at every solar and energy storage project we develop, construct, own, and operate. We are committed to ensuring the well-being of our staff, contractors, and the communities that host our projects. We have achieved an excellent safety track record by adhering to the highest safety standards, providing continuous training, and fostering a culture of vigilance. From the design phase to ongoing operations, we take every precaution to create a safe and secure environment at our projects."

Joseph Maxwell
Environment, Health, and Safety Manager

About Arevon

Arevon is a U.S. energy leader committed to powering America with affordable, reliable, and secure homegrown energy. Headquartered in Scottsdale, Arizona, and with a regional office in New York City, the company's experienced and dedicated team develops, finances, builds, owns, and operates renewable energy projects nationwide. With a strong track record in utility-scale solar and energy storage, Arevon is a trusted partner to utilities and businesses seeking cost-effective, sustainable energy solutions. By prioritizing American manufacturing and domestic energy production, the company invests in U.S. jobs, strengthens local economies, and advances the country's energy independence.

For more information about energy storage health and safety, visit our website for a list of frequently asked questions.

Updated June 2026