

Health and Safety

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



Safety is the top priority at Arevon, and our track record speaks for itself. Arevon has operated our energy storage facilities in U.S. communities since 2021 without a single thermal or recordable safety incident.

Arevon's safety-first approach features state-of-the art Lithium Iron Phosphate (LFP) battery technology, which is much safer than traditional Lithium-Ion chemistries. We partner with top LFP battery suppliers to provide the most advanced and secure battery technology available today.

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), 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.

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.



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

Thermal Safety Protection

We use only advanced LFP battery technology, which is significantly safer than previous Lithium-Ion technologies. Since LFP batteries were introduced in 2019, 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.



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.



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66 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 wellbeing 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.



Abigail Licnikas, Director, Health and Safety

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 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.

