

Energy storage inverter safety





Overview

Are new energy storage systems safe?

Interest in storage safety considerations is substantially increasing, yet newer system designs can be quite different than prior versions in terms of risk mitigation. An uncontrolled release of energy is an inevitable and dangerous possibility with storing energy in any form.

Are energy storage systems dangerous?

In general, energy that is stored has the potential for release in an uncontrolled manner, potentially endangering equipment, the environment, or people. All energy storage systems have hazards. Some hazards are easily mitigated to reduce risk, and others require more dedicated planning and execution to maintain safety.

Why are energy storage systems important?

Energy storage systems (ESS) are essential elements in global efforts to increase the availability and reliability of alternative energy sources and to reduce generation and product launch delays in the future.

What are the primary and secondary hazards of energy storage?

Resulting primary hazards may include fire, chemical, crush, electrical, and thermal. Secondary hazards may include health and environmental. EPRI's energy storage safety research is focused in three areas, or future states, defined in the Energy Storage Roadmap: Vision for 2025.



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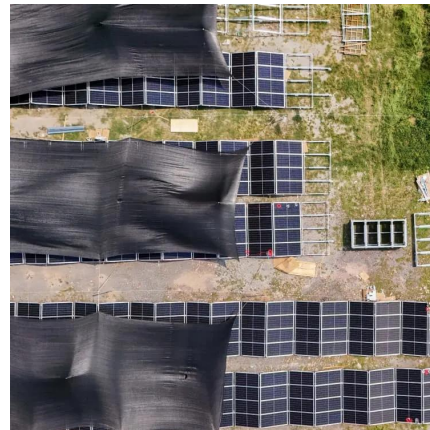
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