

Are safety engineering risk assessment methods still applicable to new energy storage systems?

While the traditional safety engineering risk assessment method are still applicable to new energy storage system, the fast pace of technological change is introducing unknown into systems and creates new paths to hazards and losses (e.g., software control).

Is systemic based risk assessment suitable for complicated energy storage system?

This paper demonstrated that systemic based risk assessment such Systems Theoretic Process Analysis (STPA) is suitable for complicated energy storage system but argues that element of probabilistic risk-based assessment needs to be incorporated.

Can a large-scale solar battery energy storage system improve accident prevention and mitigation?

This work describes an improved risk assessment approach for analyzing safety designs in the battery energy storage system incorporated in large-scale solar to improve accident prevention and mitigation, via incorporating probabilistic event tree and systems theoretic analysis. The causal factors and mitigation measures are presented.

How to develop a safety framework for complex energy systems?

Principles of incorporating both component and systemic view, assessment of safety barrier failures and assessment of indirect causal factors in abnormal system states are necessary to develop an adequate safety framework for complex energy systems such as an LSS with BESS.

Which risk assessment methods are inadequate in complex power systems?

Traditional risk assessment methods such as Event Tree Analysis, Fault Tree Analysis, Failure Modes and Effects Analysis, Hazards and Operability, and Systems Theoretic Process Analysis are becoming inadequate for designing accident prevention and mitigation measures in complex power systems.

Why do we need a risk assessment scheme?

As power system technologies advance to integrate variable renewable energy, energy storage systems and smart grid technologies, improved risk assessment schemes are required to identify solutions to accident prevention and mitigation.



# Energy storage industry policy risk assessment method



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