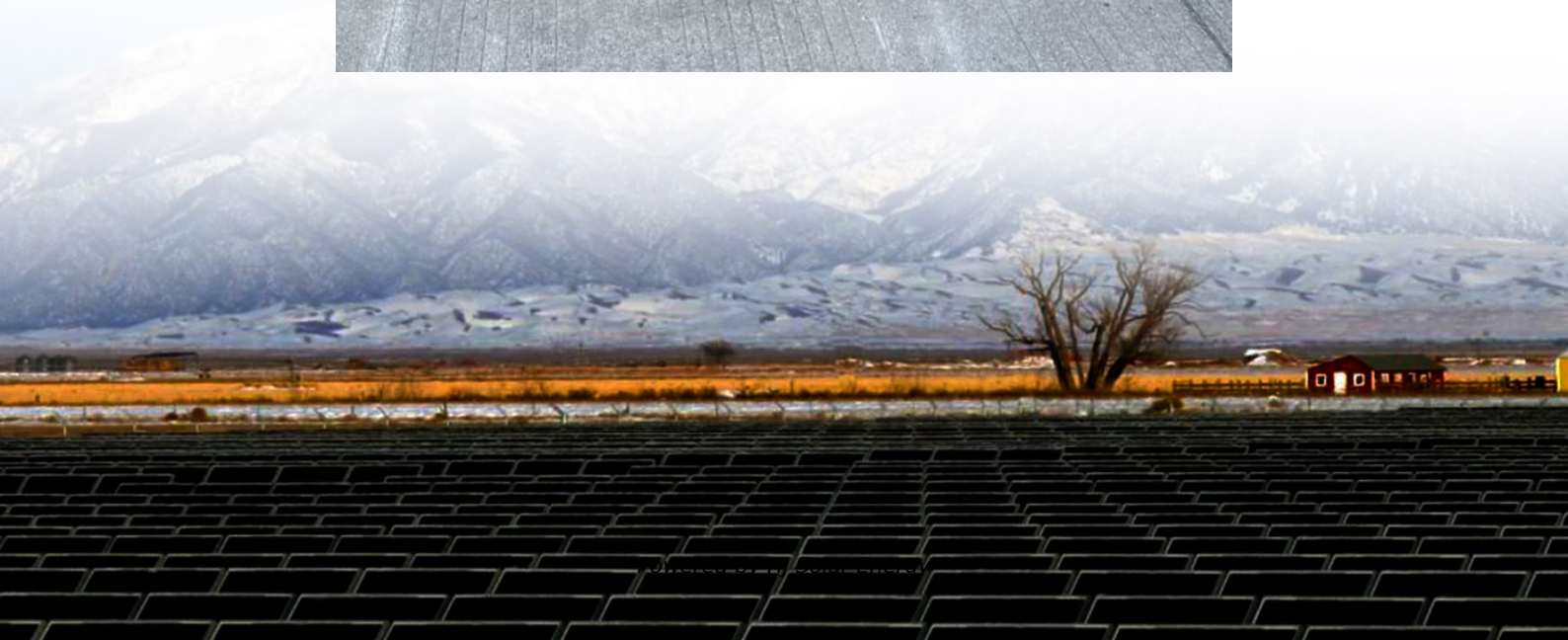


The latest risk avoidance plan for the energy storage industry





Overview

With the 2026 edition of NFPA 855 expected to be finalized and published in 2025, the energy storage industry is already incorporating key enhanced requirements and is ready to work with states and local governments to implement the latest version of the standard.

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The Department of Energy Office of Electricity Delivery and Energy Reliability Energy Storage Program would like to acknowledge the external advisory board that contributed to the topic identification, outlining, and drafting of this report: Lakshmi Srinivasan and Dirk Long (EPRI), LaTanya Schwalb.

WASHINGTON, D.C., March 28, 2025 — Today, the American Clean Power Association (ACP) released a comprehensive framework to ensure the safety of battery energy storage systems (BESS) in every community across the United States, informed by a new assessment of previous fire incidents at BESS.

The International Renewable Energy Agency predicts that with current national policies, targets and energy plans, global renewable energy shares are expected to reach 36% and 3400 GWh of stationary energy storage by 2050. However, IRENA Energy Transformation Scenario forecasts that these targets.

Clean energy trade body American Clean Power Association (ACP) has released a battery energy storage system (BESS) safety framework outlining key actions and policy recommendations for the industry. The Battery Energy Storage: Blueprint for Safety was informed by an assessment conducted by the Fire.

Battery Energy Storage Systems, or BESS, help stabilize electrical grids by providing steady power flow despite fluctuations from inconsistent generation



of renewable energy sources and other disruptions. While BESS technology is designed to bolster grid reliability, lithium battery fires at some.

The energy storage industry's trajectory in recent years has been nothing short of remarkable, driven by increased customer recognition of these assets' critical roles in grid services, electricity reliability needs, and renewable energy integration. This rapid evolution of the BESS sector also.



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[Energy Storage NFPA 855: Improving Energy Storage ...](#)

Standard for the Installation of Stationary Energy Storage Systems--provides mandatory requirements for, and explanations of, the safety strategies and features of energy storage ...

[Utility Risk Management: Best Practices for Ensuring ...](#)

In utility risk management, a wide array of operational, financial, market, regulatory, and compliance issues can potentially disrupt energy ...



Action Plan for the High-Quality Development of the New Energy Storage

The Action Plan emphasizes addressing multi-dimensional safety technologies throughout the entire lifecycle and encourages new energy storage to participate in the ...

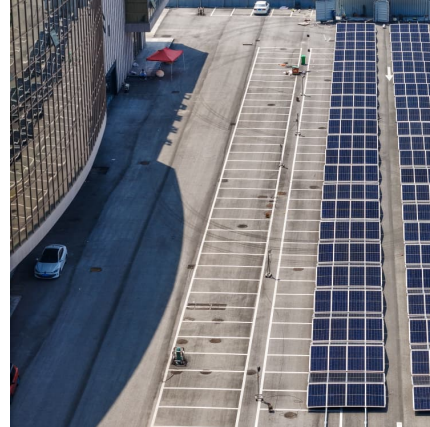


What is Risk Avoidance? A Guide and Examples , SafetyCulture

What is Risk Avoidance? Risk avoidance is a risk management strategy that is used to identify, and then minimize or eliminate potential risks



and their negative ...



2024 Biennial Energy Storage Review

Background In December 2020, DOE released the Energy Storage Grand Challenge (ESGC), which is a comprehensive program for accelerating the development, ...

Battery Energy Storage Systems: Main Considerations for Safe

This webpage includes information from first responder and industry guidance as well as background information on battery energy storage systems (challenges & fires), BESS ...



ACP proposes BESS safety plan and policy recommendations

The Battery Energy Storage: Blueprint for Safety was informed by an assessment conducted by the Fire and Risk Alliance. Image: Fluence via ACP Clean energy trade body ...



[Energy Storage Market Outlook 2024 . StartUs Insights](#)

The 2024 Energy Storage Industry Report explores current trends, investments, and tech advancements shaping the global market. This report examines the ...



Energy Storage Rides a Wave of Growth but Uncertainty ...

Continued expansion of intermittent renewable energy, ESG-focused investments, the growing versatility of storage technologies to provide grid and customer services, and declining costs ...

NFPA 855: Improving Energy

Standard for the Installation of Stationary Energy Storage Systems--provides mandatory requirements for, and explanations of, the safety strategies and features of energy storage ...



[Carbon Dioxide Removal: Purpose. Approaches. and ...](#)

Identifies recommendations for legislation, funding, rules, revisions to rules, financing mechanisms, or other policy tools that the Federal Government can use to sufficiently advance ...



Risk management: A tool for improving nuclear power plant ...

1. INTRODUCTION In today's global energy environment, nuclear power plant (NPP) managers need to consider many dimensions of risk in addition to nuclear safety-related risk. In order to ...

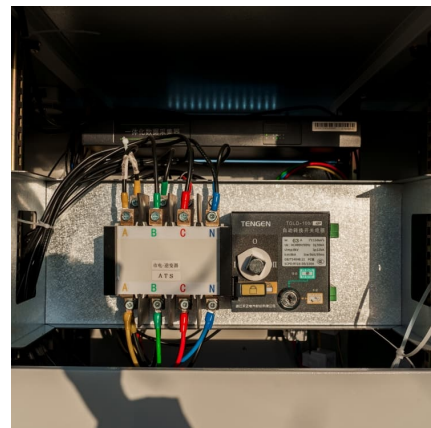


[Battery Energy Storage Systems Report](#)

This information was prepared as an account of work sponsored by an agency of the U.S. Government. Neither the U.S. Government nor any agency thereof, nor any of their employees, ...

Battery Storage Industry Unveils National Blueprint for ...

The energy storage industry is committed to acting swiftly, in partnership with fire departments, safety experts, policymakers, and regulators ...





The risk avoidance principles of the energy storage industry ...

Shared energy storage is a new type of business model combining energy storage technology and sharing economy concept, which rents idle energy storage resources to users who need ...

Managing power and utility risks in a new era of ...

A proactive enterprise risk management (ERM) strategy can help power and utility companies meet these emerging expectations, while delivering on regulatory ...



RESEARCH ON RISK AVOIDANCE IN ENERGY STORAGE INDUSTRY

What is energy storage technology? Proposes an optimal scheduling model built on functions on power and heat flows. Energy Storage Technology is one of the major components of ...

Energy Storage Industry Risk Avoidance Plan

The 14th Five-year Plan is an important new window for the development of the energy storage industry, in which energy storage will become a key supporting technology for renewable ...



[Battery Energy Storage System Recommendations](#)

To reduce the risk of inconsistent application of the OEB regulatory framework to storage-related proposals, the Independent Electricity System Operator (IESO) recommended ...



Net-zero game changers include AI, storage, carbon avoidance

From carbon capture and avoidance to alternative proteins, these are some key innovations that could become net-zero game changers.



An enhanced assessment of risks impacting the energy system

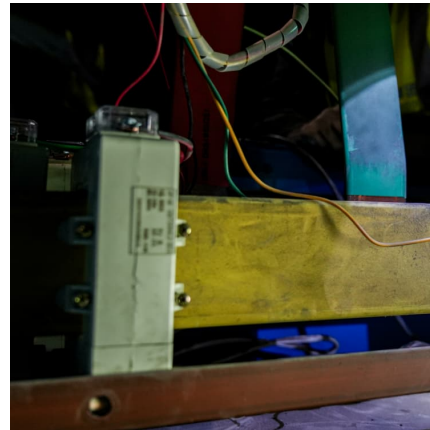
This report presents analyses from the application of an enhanced risk assessment technique - KPMG's Dynamic Risk Assessment methodology - to the risk landscape represented by the ...





Energy Storage Industry In The Next Decade: Technological ...

Introduction Driven by the global energy transformation and carbon neutrality goals, the energy storage industry is experiencing explosive growth, but it is also facing ...



China issues action plan to promote manufacturing of new-type energy

On Feb. 10, 2025, China's Ministry of Industry and Information Technology and other seven central government departments jointly announced an action plan for sound development of ...

The risk avoidance principles of the energy storage industry include

This work describes an improved risk assessment approach for analyzing safety designs in the battery energy storage system incorporated in large-scale solar, which can enhance accident ...



Battery Storage Industry Unveils National Blueprint for Safety

With the 2026 edition of NFPA 855 expected to be finalized and published in 2025, the energy storage industry is already incorporating key enhanced requirements and is ...



[Energy Storage Safety Strategic Plan](#)

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