



Energy storage fire fighting system technology revolution

What is battery energy storage fire prevention & mitigation?

In 2019, EPRI began the Battery Energy Storage Fire Prevention and Mitigation - Phase I research project, convened a group of experts, and conducted a series of energy storage site surveys and industry workshops to identify critical research and development (R&D) needs regarding battery safety.

Do fire departments need better training to deal with energy storage system hazards?

Fire departments need data, research, and better training to deal with energy storage system (ESS) hazards. These are the key findings shared by UL's Fire Safety Research Institute (FSRI) and presented by Sean DeCrane, International Association of Fire Fighters Director of Health and Safety Operational Services at SEAC's May 2023 General Meeting.

Can lithium-ion battery ESS be used for fire suppression and explosion prevention?

Recommendation: Research and testing on fire suppression and explosion prevention systems for lithium-ion battery ESS should address project sites over an extended period of time.

What is FSRI doing about battery safety?

FSRI is calling on all members of the fire service to "Take C.H.A.R.G.E. of Battery Safety" in the station, at home and in the community, from the initial product purchasing to disposing of the product when it is no longer ... read more

What is a Li-ion battery energy storage system?

Executive summary Li-ion battery Energy Storage Systems (ESS) are quickly becoming the most common type of electrochemical energy store for land and marine applications, and the use of the technology is continuously expanding.

How do FSRI respond to ESS hazard?

The deflagrations were mitigated with an engineering deflagration protection system designed as per the NFPA 68 Standard on Explosion Protection by Deflagration Venting. From these test findings, the FSRI developed two tactical considerations for responding to and mitigating ESS hazards. Thermal imaging is inadequate for ESS fire assessment.

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