



## Energy storage fire fighting system 3

Are residential energy storage systems a hazard to firefighters?

The most recent article, "Evolving technology: Residential energy storage systems," centered on the growing use of ESS, both commercial and residential as well as the potential hazard to firefighters by having residential ESS in newer homes.

Can a battery energy storage system control electrical fires?

However, these systems may be used in the computer or control rooms of an ESS to control any electrical fires. Thermal runaway in lithium batteries results in an uncontrollable rise in temperature and propagation of extreme fire hazards within a battery energy storage system (BESS).

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.

Is fire suppression equipment included in an ESS?

Suppression equipment may or may not be provided as an integral part of an ESS, or it may be optional. Depending on the case, the ESS shall comply with all applicable performance requirements in the standard with and/or without the fire detection and fire suppression equipment in place and operational.

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

Firefighters are being urged to take extra precautions when approaching structure fires involving residential energy storage systems (ESS), an increasingly popular home energy source that uses lithium-ion battery technology. The findings are ...

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