



HOME



Frequently Asked Questions

NFPA is keeping pace with the surge in energy storage and solar technology by undertaking initiatives including training, standards development, and research so that various stakeholders can safely embrace renewable energy sources and respond if potential new hazards arise.

NFPA Standards that address Energy Storage Systems

- [NFPA 1, Fire Code, Chapter 52](#)
- [NFPA 70, National Electrical Code, Article 706](#)
- [NFPA 855, Standard for the Installation of Energy Storage Systems](#)
- [NFPA 110, Standard for Emergency and Standby Power Systems](#)
- [NFPA 111, Stored Electrical Energy Emergency and Standby Power Systems](#)

Research on Energy Storage Systems from the Research Foundation

- [Projects currently underway](#)



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- Report: [Hazard Assessment of Lithium Ion Battery Energy Storage Systems](#) (February 2016)
- Report: [Development of Fire Mitigation Solutions for Photovoltaic \(PV\) Systems Installed on Building Roofs](#) (2016)

Webinars

- **REGISTER NOW!** [A Comprehensive View of Renewable Energy Installations Through the Lens of the Electrical Cycle of Safety](#)
- [Development of Fire Protection Guidance for Energy Storage Systems](#)
- [Development of Sprinkler Protection for Warehouse Storage of Lithium Ion Batteries](#)
- [SUPDET 2018 - Energy Storage System Workshop](#)
- [Hazard Assessment of Lithium Ion Battery Energy Storage Systems](#)

[View a demo:](#) Photovoltaic and Energy Storage Systems Online Training Series

[View a preview:](#) Energy Storage and Solar Systems Safety Training

Frequently Asked Questions

What is an ESS?



What are the advantages of ESS?



What are some of the hazards of ESS?



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What are ESS failure modes?



Which NFPA standard covers the installation of ESS?



What is the best extinguishing agent for a fire in a battery ESS?



I've heard that an ESS can reignite several days after a fire has been extinguished; is this true?



Is it OK to use a fire hose to extinguish a lithium-ion battery fire?



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Featured Resources

Report

In this report, fire hazards associated with lead acid batteries are identified both from a review of incidents involving them and from available fire test information.

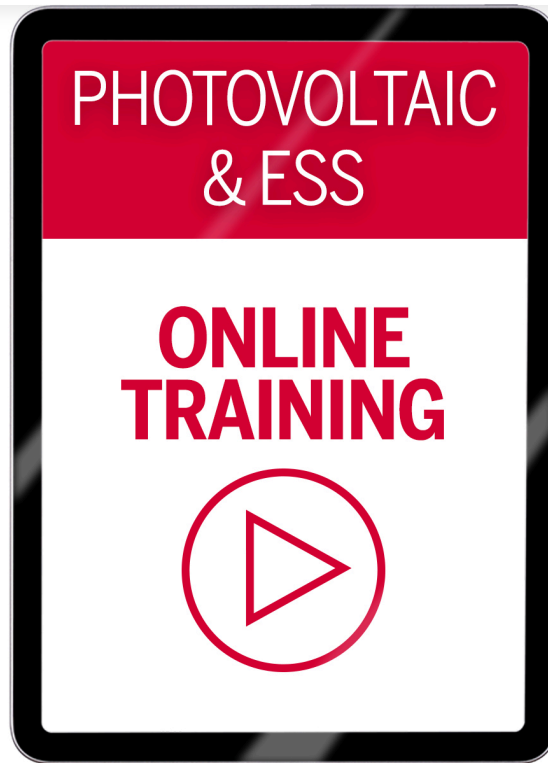
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Featured Training

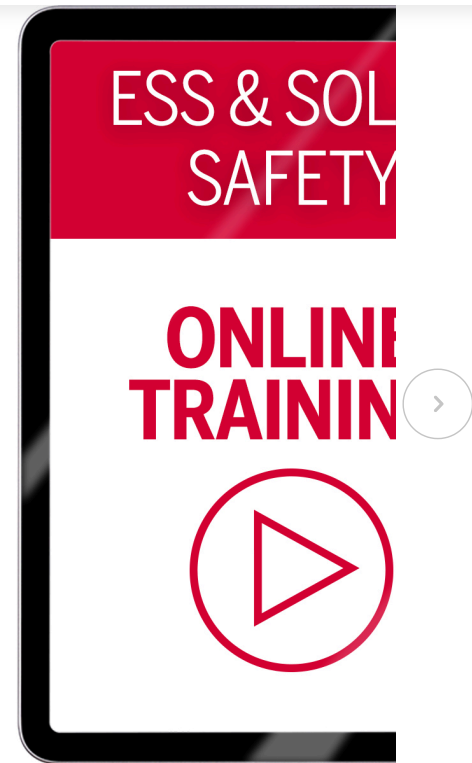


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Photovoltaic and Energy Storage Systems Series Online Training

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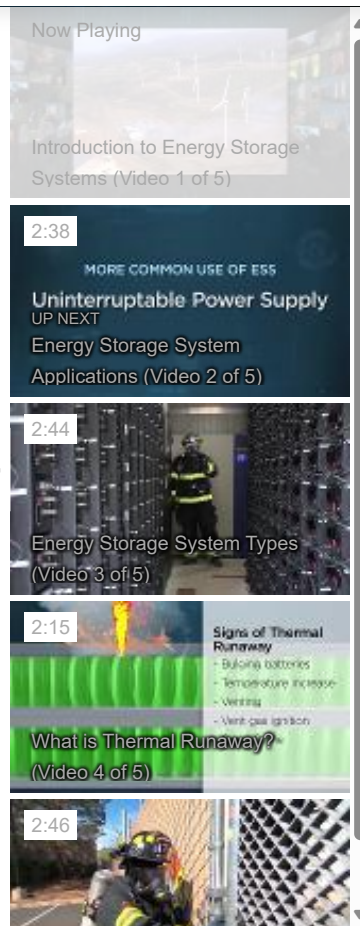
Energy Storage and Solar Safety for Emergency Responders Online Training

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Introduction to Energy Storage Systems

Watch this series of five videos on energy storage systems to be prepared for the new hazards these systems may pose.



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