



WHITE PAPER

TO: FIRESCOPE Board of Directors
23300 Castle Street
Riverside, CA 92518-2200

FROM: FIRESCOPE Operations Team, Task Force, & Incident Safety
Subcommittee

SUBJECT: Lithium Ion Battery, Energy Storage Systems (ESS) and Photovoltaic (PV)
System Training and Available Tools for Responders

SUMMARY

Due to numerous and increasingly recurring incidents involving Lithium-Ion Batteries, ESS, and PV Systems, the FIRESCOPE Incident Safety Subcommittee has developed a list of training courses to educate firefighters in addition to the FIRESCOPE Lithium-Ion Battery Awareness Training Video that is available on the FIRESCOPE website. This list is not intended to be the sole source of quality training and education, but instead provides a baseline knowledge applicable to all California firefighters.

The following courses are available on the FSRI website at no charge. The user must create an account with FSRI first then search for these classes on the website.

The Science of Fire and Explosion Hazards from Lithium-Ion Batteries

<https://fsri.org/research-update/online-training-available-science-fire-and-explosion-hazards-lithium-ion-batteries>

Fire Service Considerations with Lithium-Ion Battery ESS

<https://fsri.org/research-update/new-online-training-fire-service-considerations-lithium-ion-battery-ess>

Firefighter Safety & Photovoltaic Systems

<https://fsri.org/research/firefighter-safety-and-photovoltaic-systems>

EV Rescue – Electric Vehicles Emergency Response Guide

Available as a free download at App Store, Google Play, and Microsoft.

<https://autorescueapp.com>

RECOMMENDATIONS

The FIRESCOPE Incident Safety Subcommittee makes the following recommendation:

- Distribute the links above via the next available FIRESCOPE Quarterly Briefing



document and email for greatest distribution throughout the California Fire Service.

- Place this document in the White Papers section on the FIRESCOPE website.
- The Incident Safety Subcommittee will be responsible for monitoring the links to courses and mobile applications for currency.

IMPLEMENTATION PLAN

California firefighting agencies should be made aware of this recommendation as soon as possible through the normal FIRESCOPE distribution and publicity mechanism.

CONCLUSION

The FIRESCOPE Incident Safety Subcommittee is committed to improving all aspects of firefighter safety. We believe that the dissemination of these courses and the mobile application will enhance training and operational safety for all firefighters in the California Fire Service. The knowledge gained will provide consistent operating principles to agencies and Incident Commanders and help secure positive outcomes for incidents involving these evolving and increasingly present technologies.