

## SolarTech Power Solutions

# Guatemala Energy Storage Container Fire Fighting System



## Overview

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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.

What is a battery energy storage container (BESC)?

Battery clusters are connected in series or in parallel and equipped with supporting devices (such as current converters, fire extinguisher, etc.) to form the battery energy storage container (BESC) . Fig. 1. Schematic diagram of the battery energy storage system components.

How to protect battery energy storage stations from fire?

High-quality fire extinguishing agents and effective fire extinguishing strategies are the main means and necessary measures to suppress disasters in the design of battery energy storage stations . Traditional fire extinguishing methods include isolation, asphyxiation, cooling, and chemical suppression .

Are lithium-ion battery energy storage systems fire safe?

With the advantages of high energy density, short response time and low economic cost, utility-scale lithium-ion battery energy storage systems are built and installed around the world. However, due to the thermal runaway characteristics of lithium-ion batteries, much more attention is attracted to the fire safety of battery energy storage systems.

Can a battery storage container cause a fire?

Barowy et al. conducted three battery storage container-level fire tests and showed that fire and explosion can occur as prompt ignitions after gas venting or delayed ignitions.

How can thermal runaway cells reduce flammable gas?

Such cells would have higher thermal runaway on-set temperatures, release lower amounts of heat in thermal runaway, and release smaller amounts of less toxic, less flammable gas during such an event. Reaching this goal could remove much of the barrier complexity throughout the system.

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