



# Solar container energy storage system failure

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This webpage includes information from first responder and industry guidance as well as background information on battery energy storage systems (challenges & fires), BESS installation

This report is intended to address the failure mode analysis gap by developing a classification system that is practical for both technical and non-technical stakeholders.

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

A June 2023 fire in Warwick, New York, USA, where the local Board of Education (which hosts the BESS on its property) received a report from the

This table tracks utility and C& I scale energy storage failure incidents with publicly available information. [Click here to download a csv version of the data in this table.](#)

An evaluation of potential energy storage system failure modes and the safety-related consequences attributed to the failures is good practice and a requirement when industry standards

A June 2023 fire in Warwick, New York, USA, where the local Board of Education (which hosts the BESS on its property) received a report from the BESS owner stating that rainwater

Since this series was first issued, there have been at least sixteen further incidents of BESS failures<sup>1</sup> around the world that have resulted in fires and damage to property, although there are no reports of

This BESS level FMEA focused on the external threats to the Starlight Solar Battery Energy Storage System (BESS) Project with the objective of evaluating theoretical failure mechanisms, modes and

Explore battery energy storage systems (BESS) failure causes and trends from EPRI's BESS Failure Incident Database, incident reports, and expert analyses by TWAICE and PNNL.



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