

Title: Energy storage system failure rate ranking

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A look at the data and literature around Failures and Fires in BESS Systems. The number of fires in Battery Energy Storage Systems (BESS) is decreasing.

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.

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The study analyzes the proportion of failures associated with each root cause and BESS element, the relationship between the two, and trends in failure types and rates over time.

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For example, modeling failure events such as explosions due to combustion of high-speed, high-energy flammable gases produced during thermal runaway or deflagration due to an off-nominal condition ...

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.

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