

# **Are household energy storage batteries safe**





## Overview

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In conclusion, when properly designed, installed, and used, household energy storage batteries are a safe and reliable option for homeowners. Are batteries and energy storage systems safe?

There are safety concerns with batteries and energy storage systems, however. To future-proof your technologies, RISE can help you better understand how these products will perform during hazardous circumstances. RISE has a long history within fire safety and adapting this knowledge to aid in solving societal transitions and challenges.

Are home batteries safe?

Installation numbers are surging, and system safety is a significant concern. The main worry of most homeowners is the possibility of a battery fire, but others are also concerned about environmental safety issues when they reach the end of their lives. The good news is that I can reassure you that home batteries are very safe.

Are large battery energy storage systems a safety hazard?

Even though few incidents with domestic battery energy storage systems (BESSs) are known in the public domain, the use of large batteries in the domestic environment represents a safety hazard.

Are lithium-ion batteries safe for electric energy storage systems?

To cover specific lithium-ion battery risks for electric energy storage systems, IEC has recently been published IEC 63056 (see Table A 13). It includes specific safety requirements for lithium-ion batteries used in electrical energy storage systems under the assumption that the battery has been tested according to BS EN 62619.



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