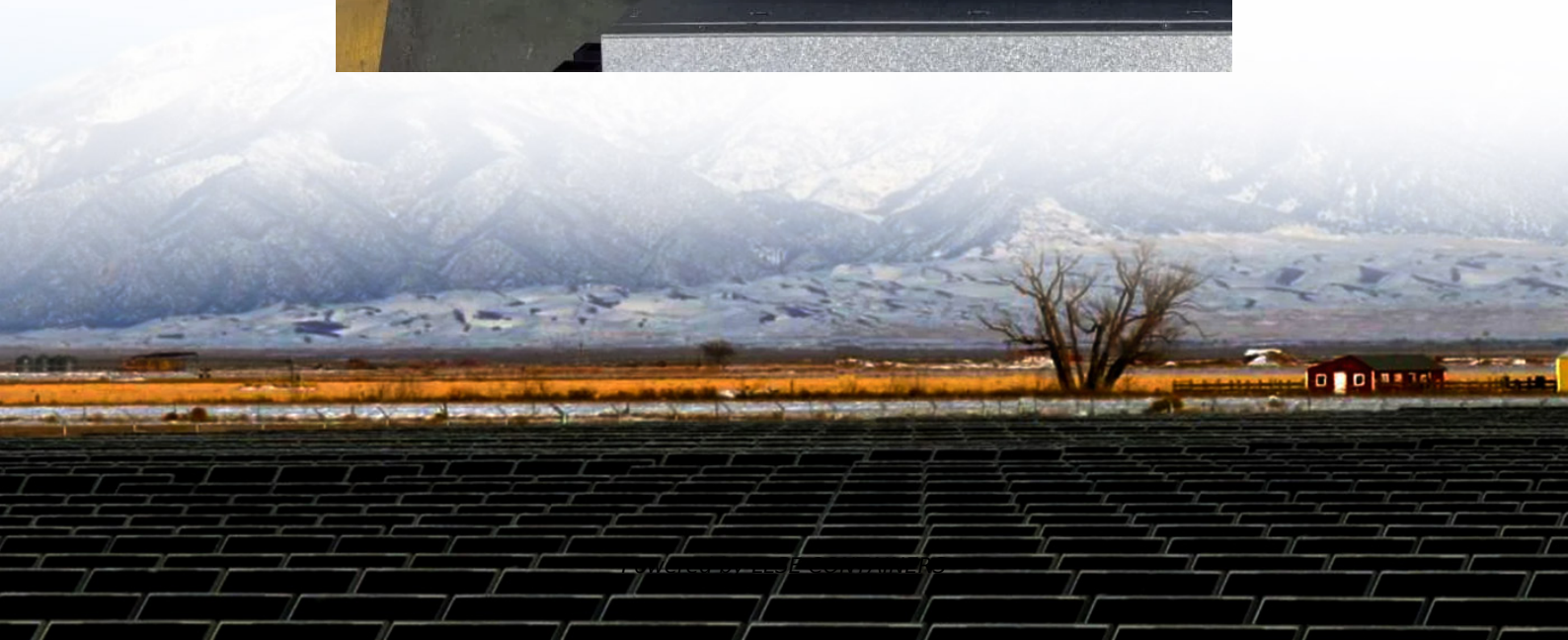


Battery Cabinet Installation Safety Risks





Overview

What are the risks of a battery fire?

BESS incidents can present unique challenges for host communities and first responders: Fire Suppression: Lithium battery fires are extremely difficult to extinguish and may reignite hours or days later. Emissions: Battery fires can release harmful gases that pose health risks to nearby residents and first responders.

Are lithium battery fires a safety concern?

While BESS technology is designed to bolster grid reliability, lithium battery fires at some installations have raised legitimate safety concerns in many communities. BESS incidents can present unique challenges for host communities and first responders:.

How many nickel manganese cobalt lithium-ion batteries were stored at Gateway?

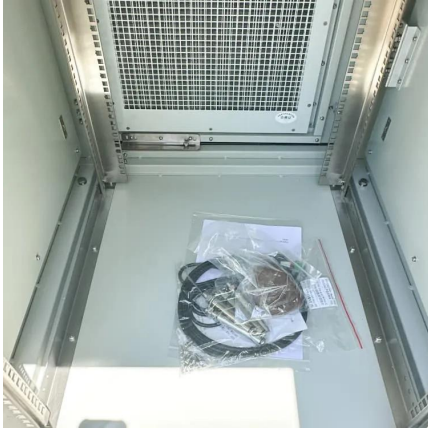
The facility held about 15,000 nickel manganese cobalt lithium-ion batteries. Following the incident, EPA has required the Gateway facility to conduct extensive environmental monitoring during battery handling and disposal operations and submit detailed work plans and progress reports.

What are the disadvantages of a non lithium ion battery chemistry?

Oxygen reduction reaction: The oxygen reduction reaction (ORR) and oxygen evolution reaction (OER) kinetics are sluggish, which hinders commercialization. Air electrode corrosion: The air electrode can corrode. Few non-Lithium-ion battery chemistries are either in existence and several in research or small scale.



Battery Cabinet Installation Safety Risks

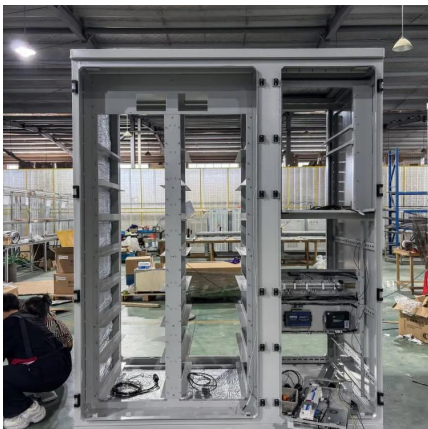


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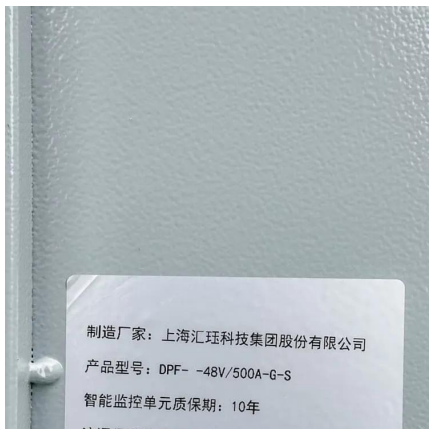
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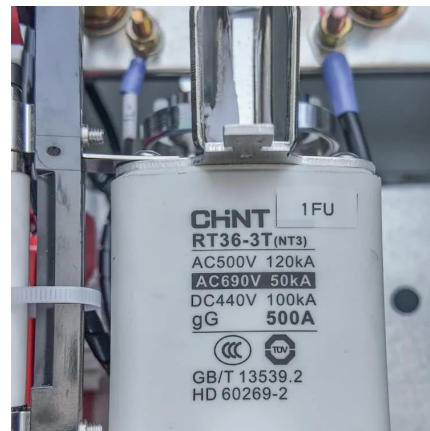


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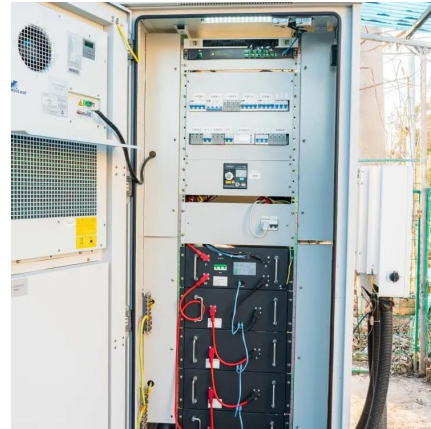
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