



BUHLE POWER

# Chemical Energy Storage Power Station Cyber Security





## Overview

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Are energy storage systems vulnerable to cyberattacks?

Energy storage systems (ESSs) are becoming an essential part of the power grid of the future, making them a potential target for physical and cyberattacks. Large-scale ESSs must include physical security technologies to protect them from adversarial actions that could damage or disable the equipment.

Are energy storage subsystems vulnerable to cyber-physical disruptions?

The energy storage subsystem in modern power grids presents unique operational vulnerabilities, particularly when exposed to cyber-physical disruptions targeting its dispatch control infrastructure. Such Figure 8. New risks under the integration of GGLS in new power system.

Are energy storage systems secure?

These systems monitor the energy storage system for unusual activity or behavior and alert system administrators if any suspicious activity is detected. In addition to these technical cybersecurity measures, it is also important to have policies and procedures in place to ensure energy storage systems' safe and secure operation.

How can cyber-physical security improve energy systems?

To move the field of cyber-physical security in energy systems forward and make sure there are complete and useful solutions for protecting critical infrastructure, it will also be important to look into new threats, trends, and ways to combine strategies from different fields.



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