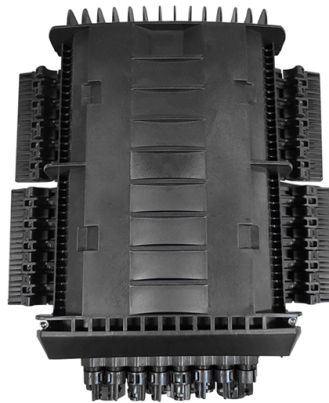


What network security equipment is used in the State Grid distribution network



Overview

Technologies used include Intrusion Detection Systems (IDS) and advanced firewalls to protect network access. Encryption protocols and secure communication networks ensure data confidentiality. Blockchain enhances data integrity, while AI-based threat detection identifies potential. The Department of Energy (DOE) Office of Cybersecurity, Energy Security, and Emergency Response (CESER) leads the Sector Risk Management Agency (SRMA) work on behalf of DOE for the Energy Sector. In this role, CESER is responsible for coordinating risk management activities to help the sector. Cybersecurity in the power sector means protecting utilities' digital and control systems. It combines visibility from the endpoint to the air with continuous monitoring and AI-powered analysis to help you increase. Ensuring the cybersecurity of substation networks is no longer optional—it's a core requirement for grid stability, national security, and compliance with regulatory standards such as NERC CIP (North American Electric Reliability Corporation Critical Infrastructure Protection). Blockchain enhances data integrity. Cyber Grid Guard uses distributed ledger technology—a secure system that creates an unchangeable and decentralized record of data to ensure accuracy and transparency—to check and confirm that all information used in fault detection remains accurate and is not subject to tampering.



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