



Energy storage station video surveillance installation tutorial

Should a utility install a video monitoring system?

Installing a video monitoring system is one of the first steps that a utility will take when implementing a physical security plan. A comprehensive video system can cover several of the eight concepts in the NERC Security Guideline for the Electricity Sector: Physical Security.

Can a video monitoring system be used in a high-voltage transmission substation?

While the NERC guideline covers the concepts including suggestions to use a video monitoring system, it does not provide the user with suggestions on how to implement a system that is suitable for a substation environment, the communications network or associated protocols. A high-voltage transmission substation can operate at 500kV or higher.

Can a video system be installed in a remote substation?

Installing a video system in a remote substation comes with challenges that are unique to the industry, including high levels of EMI, voltage surges and interrupts, limited network bandwidth, and extremes in weather conditions.

How to choose a substation monitoring system?

The main goal should be to install a system that is reliable, while providing the monitoring features that are required by the utility and the regulating authorities. Equipment with certifications from recognized industry bodies will provide utilities with assurance that the system will operate reliably in a substation environment.

How does a video monitoring system work?

The video monitoring system is connected to the substation network so it can communicate with the SCADA system at the control center with alarms, messages, visual, and thermal information of the operating conditions at the substation.

Why do utilities need a video system?

For utilities following NERC CIP 014 and the NERC Security Guideline for the Electricity Sector, a video system is required to visually monitor substations and prevent and investigate various types of security threats including theft, unauthorized access, vandalism and sabotage to the critical infrastructure.

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