

Power outage in rural solar container communication station room





Overview

Can Telecom site automation help during a power outage?

Weather-related power outages and unreliable AC grid power can not be avoided in some regions in the world. In these situations, telecom site automation can help during power outages across either individual or multiple sites and be beneficial during times of “normal” operation. The first link in the chain of power to a site is the AC grid.

Why do remote sites need power issues?

Power issues are the most fundamental item that network operators need to monitor and manage at remote sites. The ability to remotely monitor and reboot equipment contributes to both network resilience and network efficiency.

What causes power outages?

In the United States, the number one cause of power outage is severe weather. Weather such as thunderstorms, hurricanes, and blizzards account for 58% of outages observed since 2002. Weather-related power outages have increased significantly since 1992 and will continue to increase due to climate change.

What happens when batteries run out of a cell tower?

When the batteries run out, the cell towers are powered by generators that rely on the tanks to be refueled. It can be a complicated process due to conditions on the ground and extremely inefficient for the Network Operation Center (NOC) if it has no visibility on fuel levels.



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