

## ContainerPower Energy Solutions

# Substations affect communication base stations



## Overview

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One or more transmission and/or distribution lines. Substations are designed to accomplish the following functions, although flow of reactive kilovolt-amperes in the circuit is more than a transformer and associated switches. Other substations are very large and may be several acres in size with several.

Communication is a fast-developing field that influences various industries, including the power industry. Communication enhancements affect both intra and inter-substation communication. The main direction for both intra and inter-substation communication is the use of packet-switched.

Improved relaying performance. Schemes such as power line telephony (1920s) and pilot wire relaying (1930s) evolved into digital time division multiplexers (TDMs) (invented in 1960s and used for power system communications in 1970s). TDM allowed audio teleprotection, audio-based relaying, SCADA, and.

The International Electrotechnical Committee (IEC) Technical Committee (TC) 57 was established in 1964 because of an urgent need to produce international standards in the field of communications between the equipment and systems for the electric power process, including telecontrol, teleprotection.

Electrical substations, provide an efficient means to deliver power to end users. Reliable communication is key to providing the most efficient means possible. The complexities of modern electrical grids demand robust communication systems that ensure smooth operation, rapid fault detection,

and.

With the rapid development of the construction and application of 5G communication networks in the power grid, more and more 5G base stations need to be built in substations. 5G base stations have antennas placed outside in a complex electromagnetic environment, and they also become sensitive ports.

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