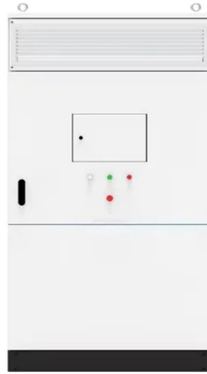
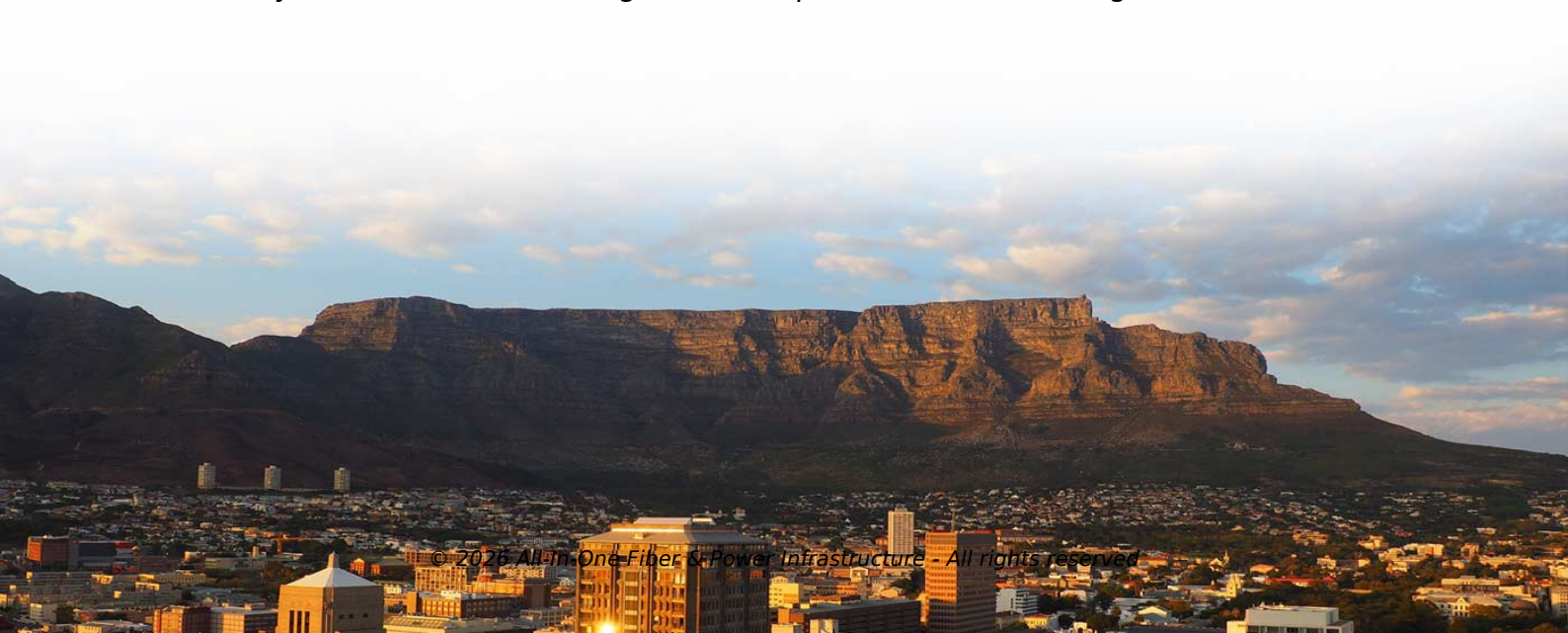


10kV busbar of a substation



Overview

A 10KV busbar duct system (also known as bus trunking) is the backbone for safely and efficiently transmitting large currents at 10,000 volts, commonly found in electrical substations, heavy industrial plants, data centers, and large-scale commercial infrastructure. Here, we provide an overview of common substation busbar configurations—Single Bus, Main and Transfer, Double Breaker/Double Bus, Ring Bus/Ring Main, and Breaker and a Half. Designing a substation involves not only the visible equipment and ratings but also the less apparent factors—operational. In Simple words, a bus-bar is a common connection point or a node for multiple incoming and outgoing circuits such as power lines or feeders. As we know it is impractical to connect multiple conductors at one point. Used in small substations. We have several busbar arrangements employed in grid stations and substations; they include: This is the simplest arrangement of a substation as illustrated in figure 1 (a). Independently of the number of. Imagine an electrical substation as a major traffic interchange for electricity. The choice of a particular arrangement depends upon various factors such as system voltage, position of sub-station, degree of reliability, cost etc. The following are the important bus-bar arrangements used in.



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