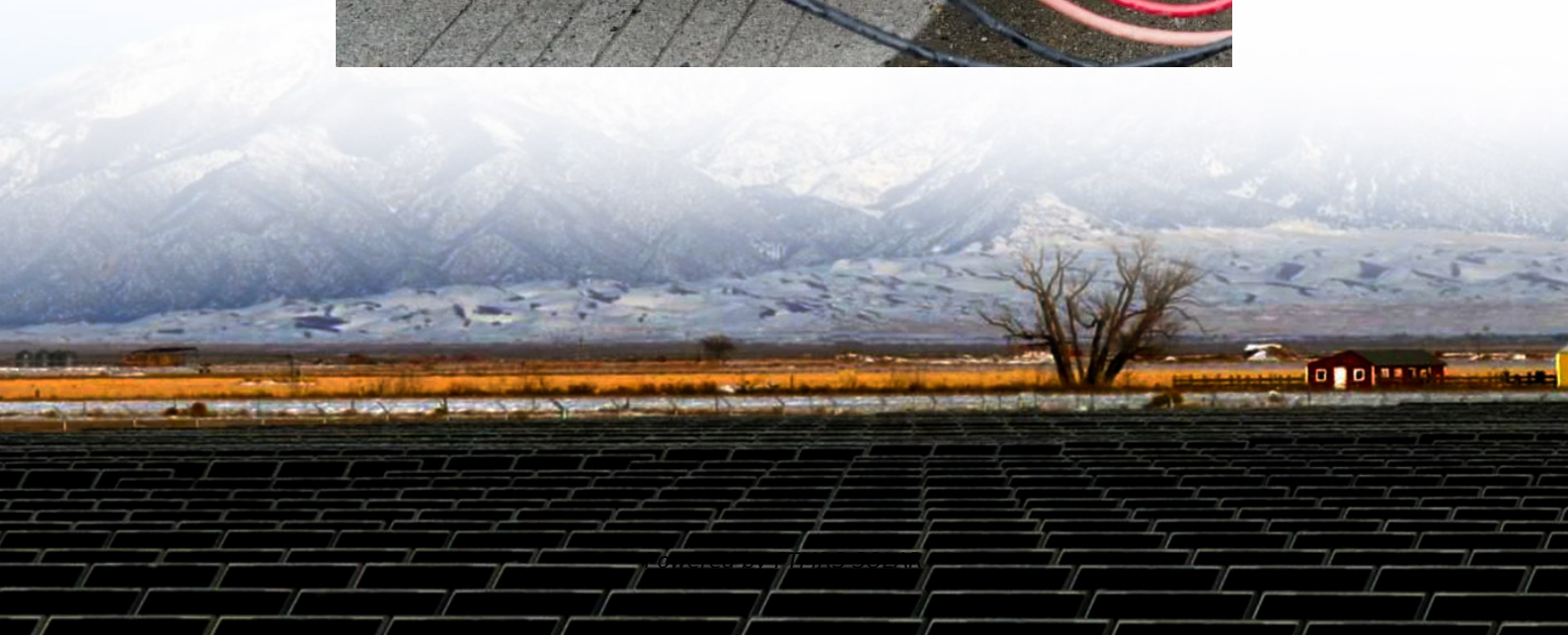


Circuit breaker in substation in Mongolia





Overview

What is a circuit breaker in a substation?

A circuit breaker in substation is a key component in electrical power systems, designed to interrupt the flow of electricity when a fault occurs, such as a short circuit or overload. Depending on system design, these devices can operate manually or automatically and come in various types, including air, vacuum, oil, and SF₆ gas.

What is an OCB in a high-voltage substation?

OCBs are used in high-voltage substations and have been popular in the past, although they are now being replaced by more modern technologies.

Example: In a rural high-voltage substation serving a long transmission line, an OCB might be used to protect the line.

What are the different types of MV circuit breaker?

There are three main types of medium voltage circuit breakers- air, oil, and SF₆. Air circuit breakers use compressed air to extinguish the arc, while oil and SF₆ circuit breakers use dielectric fluids to do the same. Oil circuit breakers have been around the longest, and were actually the first type of MV circuit breaker ever used.

How does a relay work in a substation?

When a relay detects an abnormality, it sends a signal to the breaker to open, thereby isolating the faulty section. This automated coordination is crucial in modern substations, particularly as grids integrate renewable energy sources and smart grid technologies.



Circuit breaker in substation in Mongolia

Different Types of Circuit Breakers in Substations

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