

Circuit breaker in substation in Slovenia





Overview

Where are the transmission networks located in Slovenia?

They are located throughout Slovenia, the largest ones being in Beričevo, Podlog, Maribor, Divača, Okroglo and Krško. High-voltage devices (circuit breakers, isolating switches, instrument transformers, lightning arresters), mostly installed in the substations, are also a part of the transmission network.

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.

Does Slovenia have an electric power system?

The electric power system in Slovenia is well connected to the neighbouring electric power systems. Slovenia is connected to Austria with two 400 kV and one 220 kV transmission lines, one 400 kV line and one 220 kV line lead to Italy, and three 400 kV, two 220 kV and three 110 kV transmission lines connect Slovenia to Croatia.

How many kV transmission lines are there in Slovenia?

The ELES Company is responsible for 500 km of transmission lines in the 400 kV transmission network, 260 km of transmission lines in the 220 kV transmission network, and 1,800 km of transmission lines in the 110 kV transmission network. The electric power system in Slovenia is well connected to the neighbouring electric power systems.



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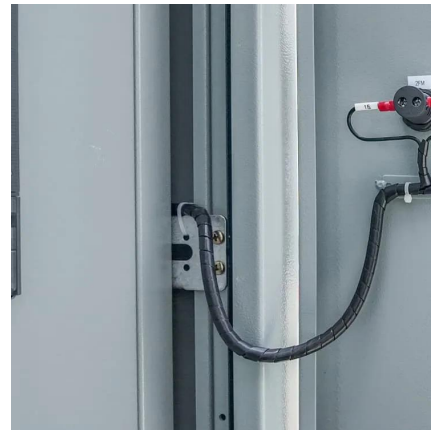


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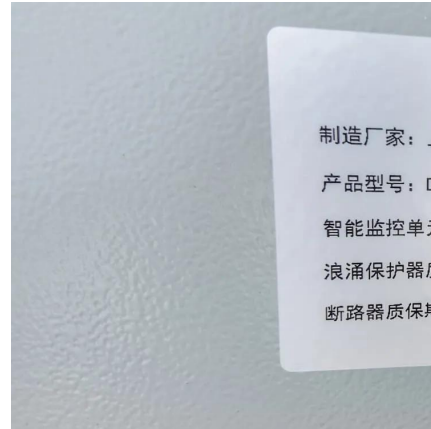


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Vacuum Circuit Breakers
SF6 Circuit Breakers
Oil Circuit Breaker
Airblast Circuit Breaker
An airblast circuit breaker uses compressed gas or air to break the arc. This gas is stored in a tank that releases gas through a high-velocity nozzle. While in use, an air valve that connects the tank and arcing chamber opens, allowing pressurized air to make its way to the arcing chamber. The blast of gas or air pushes the two moving contacts and See more on peaksubstation
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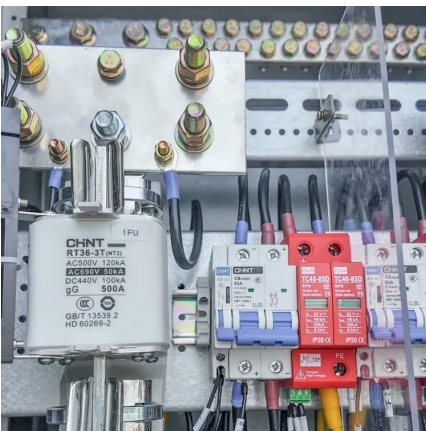


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