

Eco-friendly transformers for Moscow metropolitan area

Siemens Transformers recently helped to increase the safety, reliability, and eco-friendliness of Moscow's energy supply. The leading transformer supplier of alternative insulation solutions delivered four units of ester-insulated transformers, in total 400 MVA, from 6 up to 110 kV for the new substation "Bersenevskaya" of United Energy Company. This substation is located in the center of Moscow, just 400 m from the Kremlin.

Commissioning a substation in the heart of a megacity poses extra-strict requirements of the equipment and the installation. The indoor transformers are equipped with an extra fire and environmental protection together with the option to regulate the high and medium voltage side under load.

As a result of the requirements, the customer opted for Midel as an insulation fluid rather than traditional mineral oil. Since Siemens Transformers has been manufacturing transformers with ester insulation for decades, its manufacturing network enables knowledge transfer between plants. The order was placed at the transformer plant in Voronezh, Russia: an excellent example of how Siemens Transformers is combining its global setup with local presence.

The importance of this project for the residents of Moscow was expressed by the personal inauguration of the substation by the mayor, Sergej Sobjanin, acknowledging the commitment of the authorities of Moscow to the shift towards sustainable power.

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Midel-insulated 160 MVA-transformer for Moscow in the testbay at the transformer plant in Voronezh.

"The project in Moscow demonstrates how Siemens Transformers partners with energy providers all over the world to increase grid resilience," says Dr. Beatrix Natter, Head of Siemens Transformers. "Our commitment to this global goal is reflected in our portfolio with the Pretact® concept that includes a comprehensive set of services and features to prevent assets from operational failures, protect them from harm, and provides a chance to react in case of unforeseen events."

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