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«СИСТЕМНЫЙ ОПЕРАТОР
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SO UPS and Rosseti demonstrate short-term synchronized operation between Eastern and Siberian Grids via the Peleduy Power Ring in Yakutia

SO UPS together with ROSSETI have successfully performed a new scenario for short-term synchronous operation of the Siberian and the Eastern Interconnected Power Systems (IPS) via the 220 kV Peleduy power ring in Yakutia. The field tests confirmed the technical feasibility of short-term synchronous operation between the two IPSs via the 220 kV Gorodskaya–Peleduy transmission corridor.

The East IPS, being the second synchronous zone of the Russian UPS, has historically operated in isolation from the rest of the UPS due to insufficient transfer capacity of 220 kV transmission lines. Previously, in 2022 and 2025, the feasibility of short-term synchronous operation was confirmed via transmission corridors along the Trans-Siberian and Baikal-Amur Mainlines.

The new Yakutia-based scenario enables load transfer between the neighboring systems without load shedding under complex operating and balancing conditions. The test program comprised two stages with synchronization at 220 kV Gorodskaya and Peleduy substations. System stability was maintained by automatic frequency and active power flows regulation of the East IPS to control power flows across the "Gorodskaya–Peleduy" section supported by both Zeya and Bureya HPPs. The trials were preceded by P&A reconfiguration.

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