

Review of the use of approaches to frequency regulation and the choice of operational power reserves in the efficiency of the Russian system.

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The article analyzes approaches to frequency regulation and determination of the required amount of operational reserves of active power in isolated operating electric power systems of Russia.

Electric power systems of the Kaliningrad, Magadan and Sakhalin regions are considered. A brief description of them is given in the part:

- structure and amount of consumption;
- generating equipment, its characteristics, operating modes;
- approach to determining the operational reserves of active power.

In the final part, general approaches to frequency regulation and the choice of operating reserves among the considered isolated electric power systems are revealed.

Key words: isolated power system, operational reserves, primary reserve, secondary reserve, tertiary reserve, regulation, frequency.