

Problems of using the potential of renewable energy sources for frequency control in electrical systems.

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The issues of frequency control induced by increasing quantity of renewable energy sources in power systems are considered in the article. Possibility of frequency control using renewable energy sources potential is estimated. Basing upon experience of renewable energy sources operation and integration into power systems, basic principles of frequency control are formulated. These principles could be already efficient being applied to low power islanded power systems.

Keywords: renewable energy sources, frequency control, wind power plants, solar power plants, GPFC.