

The Guaranteed Power Supply System on the Base of Alternative and Renewable Energy Sources

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The necessity of developing and implementation of the guaranteed power supply system using distributed generation on the base of alternative and renewable energy sources is proved in conditions of responsible technological processes. The theoretical and experimental researches were made in raw mineral enterprises, which have a great amount of responsible technological consumers. The permitted duration of power supply interruption for responsible consumers of continuous technological processes of raw mineral industry is determined. The effectiveness of distributed generation using for guaranteed power supply mode is shown. The reasonability of solar, wind and followed oil gas energy applying in role of power sources for distributed generation is also proved in the paper. The basic variants of guaranteed power supply system structure are described and offered in the paper for all kind of industry and technique, especially for responsible digital control systems and telecommunications.



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