

The paper aims to examine the prospects of using microgrids in Russian regions, including in the old industrial ones, to reduce energy costs of industrial enterprises. The methodological basis of the study comprises theoretical aspects of pricing within the models of retail and wholesale energy markets, tenets of uneven demand for energy under ...

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Abstract: The paper substantiates the composition and choice of a microgrid for settlements in the Central European part of Russia that are not connected to centralized public electricity ...

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Design of day-ahead load profile to improve the efficiency of commercial and industrial microgrids E3S Web of Conferences 470, 01050 (2023) Analysis of the concepts of building microgrids containing distributed generation objects

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Abstract: The paper substantiates the composition and choice of a microgrid for settlements in the Central European part of Russia that are not connected to centralized public electricity networks. An economic analysis of microgrid costs in comparison with traditional methods of power supply (diesel, power lines) has been carried out.

The paper analyzes specific features of microgrid operation in different seasons of the year and at different hours of the day, formulates a set of problems on control of operating conditions and...

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Microgrids Energy Security for Overseas Bases Natha N P. Olse N Russia's targeting of Ukraine's power grid by Iranian drones and recent increases in natural disasters have highlighted the vulnerability of critical infrastructure and electrical systems worldwide.

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The paper presents an approach to the development of microgrid on the basis of renewable energy sources for settlements in the Central European part of Russia not connected to centralized electrical network providing comfortable level of the population living.

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