

Is intelligent energy system a Russian vision of a smart grid?

The chapter presents the following contributions: intelligent energy system as a Russian vision of a smart grid; informational support of an active and adaptive network (IESAAN) control problems; intelligent operation and smart emergency protection; smart grid clusters in Russia. 1.1. Intelligent energy system as Russian vision of smart grid

Are smart grids feasible in Russia?

The article discusses external effects and feasibility of smart grids in Russian energy sector on the basis of active-adaptive grid. The targets of smart grid development are analysed. The authors developed an econometric model of electricity consumption in Russia depending on the influence of indirect factors.

Can smart technologies be used in emergency control of Russia's unified energy system?

Smart technologies in emergency control of Russia's unified energy system False data injection attacks against state estimation in electric power grids, Proc. of the 16th ACM Conf. on Computer and Communications Security, USA (2009) Vulnerability analysis of wide area measurement system in the smart grid Smart Grid Renew. Energy (2013), pp. 1 - 7

Does Russia have a smart metering program?

In Russia, no special programs for informing consumers, and especially for their training or practical preparation for the operation of smart metering systems, have not yet been developed.

What is a smart grid?

Smart grids today mean a wide range of technologies that can significantly improve the functional qualities of the electric grid (reliability, manageability, flexibility), as well as give it new properties, such as to enable demand-side participation (Fig. 10.5).

How a grid organization can improve charging infrastructure in Russia?

Considering that grid organizations in the Russian Federation are the main initiators of the development of charging infrastructure,they can get an additional economic effect by increasing the volume of transmitted power.

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Can we expect that electric grids in Russia in the next decade are to become grids of a new technological paradigm with qualitatively new characteristics of reliability, efficiency, availability, manageability, and customer focus?

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Bashkortostan republic in Russia. In this joint project, an optimal set of innovative concepts and technologies was developed and further used to create a technically and economically feasible masterplan, which addresses the following main targets: modernization and enhancement of the grid structure, reduction of losses,

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The Russian Direct Investment Fund (RDIF), Russia's sovereign wealth fund, and JSC Rosseti (Rosseti), a state-owned power transmission and distribution company, have followed on an agreement signed in St Petersburg last year by announcing a joint programme to build smart grids in the country.

The development of new smart grids technologies, with the exception of technologies for monitoring the grid equipment and automated metering of energy consumption, is still significantly lagging in Russia.

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Smarter grid solution Russia

Given the enormous importance of smart grid technology, the Russian power industry has taken an ambitious plan to introduce various elements of smart grid technology, including smart metering devices, power line monitoring systems, and self-healing systems. For example, since 2011, the Responsible Editor: Ilhan Ozturk
* Svetlana Ratner lanarat ...

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