Russian solar energy intelligent control system

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At its core, intelligent control systems integrate artificial intelligence (AI), Internet of Things (IoT) devices, and advanced data analytics. This amalgamation allows for enhanced ...

This study examines the importance of artificial intelligence in facilitating continuous power supply to clients using a battery system, hence emphasizing its significance in energy management.

This paper addresses the smart management and control of an independent hybrid system based on renewable energies.

In 2010-12, the concept of an intelligent EPS with IESAAN was developed in Russia. The concept stipulates that all subjects of the electricity market (generation, grid, and consumers) take an active ...

Abstract: A distinctive feature of the energy system development in Russian megalopolises is the need for a comprehensive approach to the problem of making the network intelligent.

The article considers the concept of intelligent integrated energy systems (IES) being developed in the Russian Federation (RF) and the problem of building intelligent control systems for ...

This study presents a novel approach for integrating solar PV systems with high input performance through adaptive neuro-fuzzy inference systems (ANFIS). A fuzzy neural inference ...

Therefore, our study aimed to conduct a comprehensive comparative analysis of these intelligent controllers by applying real environment and varying weather scenarios and aligning with ...

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