SolarInnovate Energy Solutions

Main body of Moscow energy storage power station

Overview

How big is Russia's energy system?

Moscow’s energy system is one of the largest and most far-reaching not only in Russia, but in the world. It includes 103,142 kilometres of power networks, 158 power centres and 20,093 transformer and distribution substations.

What are some examples of power centres in Russia?

For example, the Belorusskaya power substation that was built last year and has a total capacity of 360 MVA is one of the main power centres in northern Moscow. More residential buildings, offices, companies and hospitals, including large ones, such as the Botkin and Filatov hospitals, now get more power.

What is the most powerful substation in Moscow?

The Magistralnaya ranks among the most powerful substations in Moscow (700 MVA), opened in 2011. It is also one of the largest closed-type supply centres in Europe. It provides electricity to the central part of the city, including the Moscow City business centre, as well as more than 250 facilities in six other administrative areas.

How much electricity does Moscow need a year?

It includes 103,142 kilometres of power networks, 158 power centres and 20,093 transformer and distribution substations. Each year Moscow needs over 43 billion kW/h of electricity: the city is growing, with new districts, schools and offices being constructed. All of them need electricity, which means new supply centres.

What is the capacity of Russian electric power system in 2025?

According to the "Scheme and Program for the Development of Electric Power System of Russia for 2025–2030", released by the Russian Ministry of Energy in November 2024, Unit 10 will be replaced by Unit 10R in 2025, and the unit's

capacity will reach 250 MW.

Who owns Moscow CHP-22 power station?

The 11-unit, 1,405-MW gas-fired Moscow CHP-22 power station is owned by Gazprom. The plant’s 11 units were brought online between 1960 and 1973. In 2014 a plan to rebuild Unit 9 with an increased capacity of 335 MW was announced. The rebuilt unit was scheduled to be commissioned in 2021.

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Moscow CHP-22 power station

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