

# Features of Moscow energy storage solar project





## Overview

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How many solar power plants are there in Russia?

Insolation map of Russia (Map of Insolation of Russia, 2019). At the beginning of 2020, thirteen solar power plants with a total installed capacity of more than 300 MW are already operating in this region (Solar Power Plants in the Orenburg Region, 2019).

How much does a solar power plant cost in Russia?

According to Russian suppliers for solar power plants (altecology.ru, 2019; Solar controller, 2020), the average cost of equipment for solar power plants with an installed capacity of 10 MW is 310 million rubles.

What are the main features of electricity and capacity generation at solar power plants?

The main feature of electricity and capacity generation at solar power plants is the unevenness of electricity generation both during the day (Figure 2) and throughout the year (Figure 3). The data presented is obtained from the SCADA system. FIGURE 2.

What are the daily hours of solar power generation in the Orenburg region?

The distribution of daily and annual electricity generation presented in Figures 2, 3 indicates that the daily hours of maximum generation power of solar stations in the Orenburg region is reached from 12 p.m. up to 3 p.m. mainly in the spring and summer months.



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