

Title: Specifications of rural solar panels in St Petersburg Russia

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Who develops solar energy in the Orenburg region?

The main energy companies developing solar energy in the Orenburg region are the Russian Hevel Group, including "Avelar Solar Technology" LLC, and "Renova", including "T Plus" PJSC, as well as the Finnish company "Fortum" and the French company "Schneider Electric".

Is the Orenburg region a good place to invest in solar energy?

The Orenburg region is one of the long-term leaders among the regions of Russia, not only in terms of the potential of solar energy (about 300 sunny days a year) (Kommersant, 2020; Rambler, 2020) (Figure 5), but also in terms of the rate of development of this sector in the country. FIGURE 5.

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 is the real utilization factor of solar power plants?

Based on the results of evaluating the distribution of data in Figures 1, 2, it is assumed that the real utilization factor of the installed capacity that can be obtained at solar power plants in the Orenburg region is approximately 17%.

In order to answer this question, the authors need to assess the economic feasibility of seven scenarios for the construction of a solar power plant in the Orenburg region ...

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