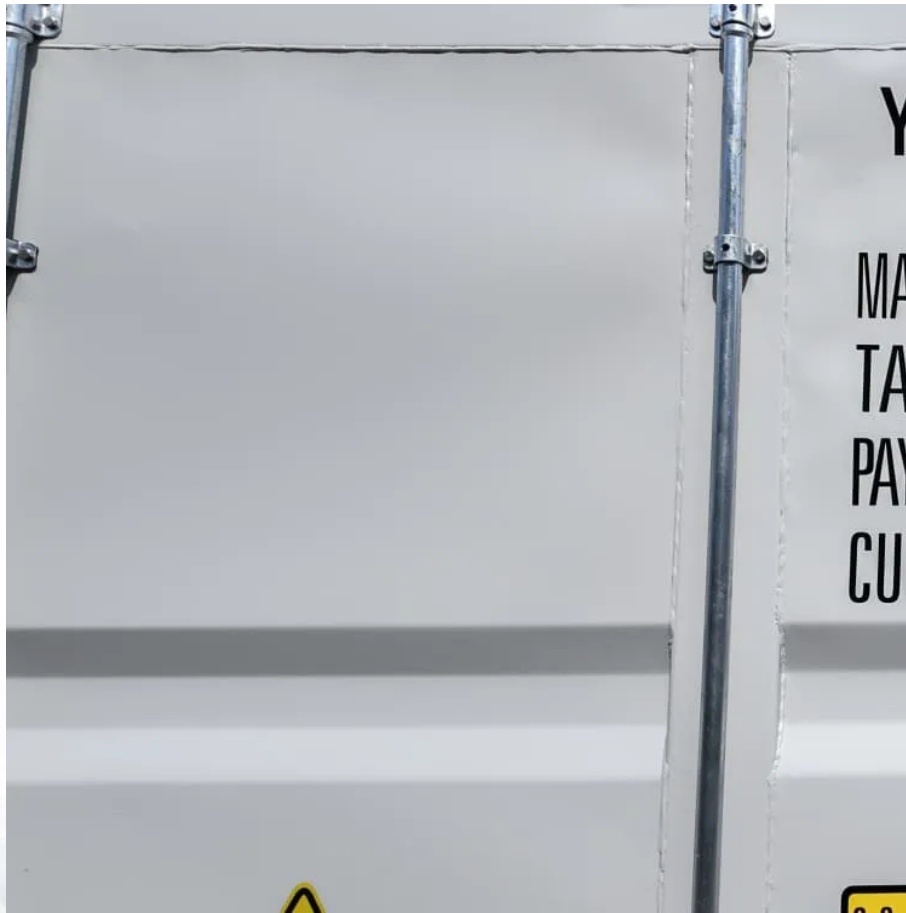


The role of photovoltaic power generation and energy storage in Russia





Overview

What impact will photovoltaics have on Russia's economy?

Yet, the combined effect of the exceedingly low cost of electricity generation via today's photovoltaic modules and wind turbines combined with energy storage in Li-ion battery and hydrogen obtained via water electrolysis will shortly have a profound impact on Russia's economy and manufacturing industry.

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.

Can a lithium-ion storage network increase the efficiency of the SPP?

Based on the results of the analysis of the distribution of peak load hours and maximum power generation in the Orenburg region, it was decided that to increase the efficiency of the SPP, it is possible to use lithium-ion storage network energy storage units with a capacity of 10 MWh.



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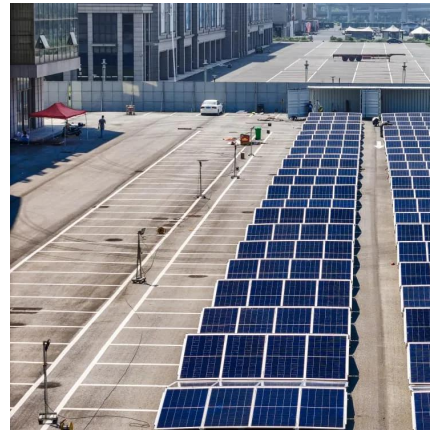




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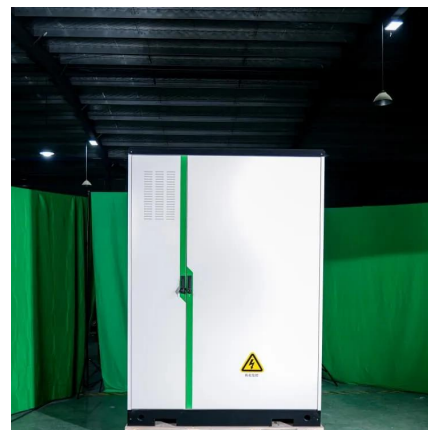
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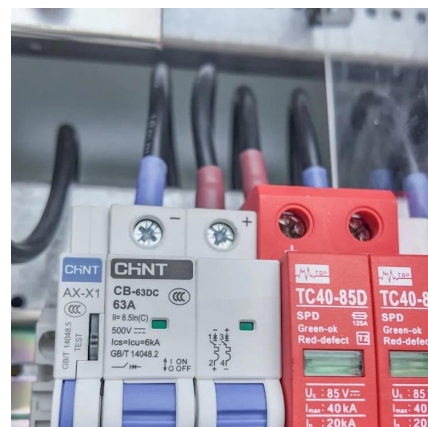
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