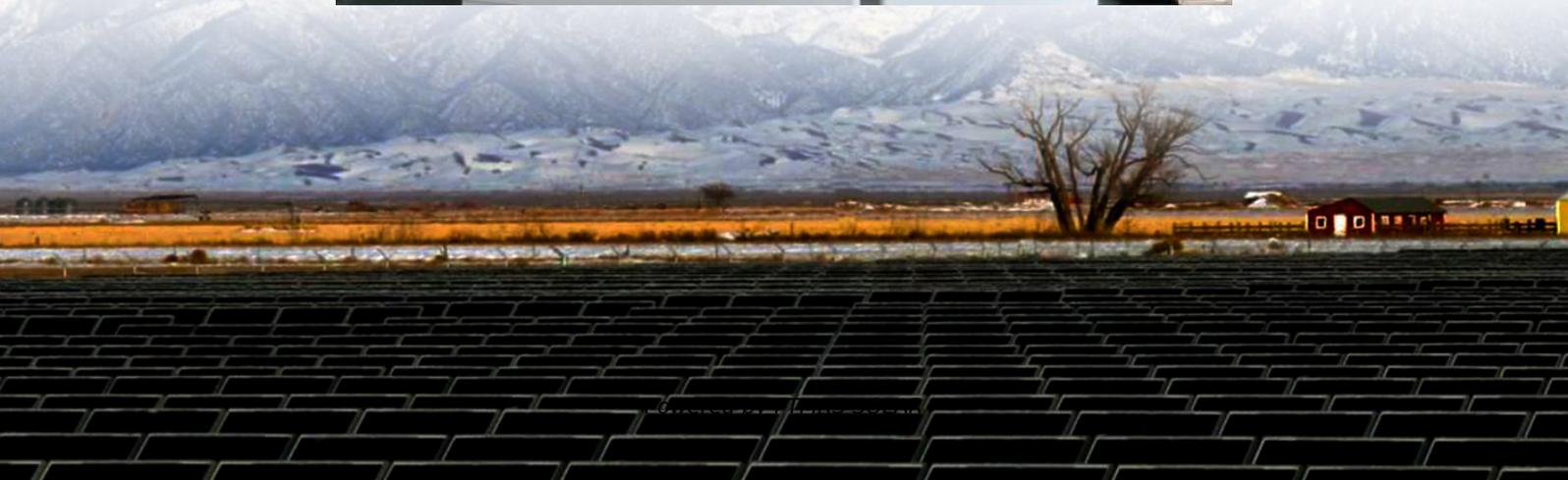


Off-grid cost of photovoltaic containerized base stations in Russia





Overview

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.

Can off-grid energy systems be a multi-year transformation?

Only four exceptions consider off-grid energy systems in a multi-year transformation [74, 114, 179, 180]. Especially expansion rates of renewable energies as well as retrofit rates of buildings can have a major impact on costs and CO2 emissions in decentralized energy systems and could be limited by available material and craftsmen.

How much does an off-grid solar-plus-storage project cost?

According to Usachev, the levelized cost of electricity (LCOE) of recently commissioned off-grid solar-plus-storage projects ranges from RUB14-22/kWh (\$0.19-0.29), which makes it much more economically viable, compared to net diesel generation. An off-grid PV plant built by Hevel Solar.

How can off-grid energy systems reduce costs?

The cost of the required measures, including network expansion/densification, storage, backup capacity, and flexibility of existing plants, can be reduced in some cases with off-grid energy systems.



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