

Off-grid cost of Russian photovoltaic containerized systems





Overview

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.

Is off-grid PV a viable alternative to diesel power generators?

Off-grid PV has become a much more viable solution than diesel power generators to bring electricity to Russia's remotest regions. Furthermore, solar-plus-storage is able to deliver with no interruption 24 hours per day and seven days per week, while fuel availability means diesel power can only ensure between four and seven hours per day.

How much does a solar PV system cost?

Some notable examples include high PV costs of 2500 \$ 2021 /kW in the article by Malanda et al. from 2021, 4200 \$ 2021 /kW in You & Kim from 2020 or 5800 \$ 2021 /kW in Baseer et al. from 2019.

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.



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