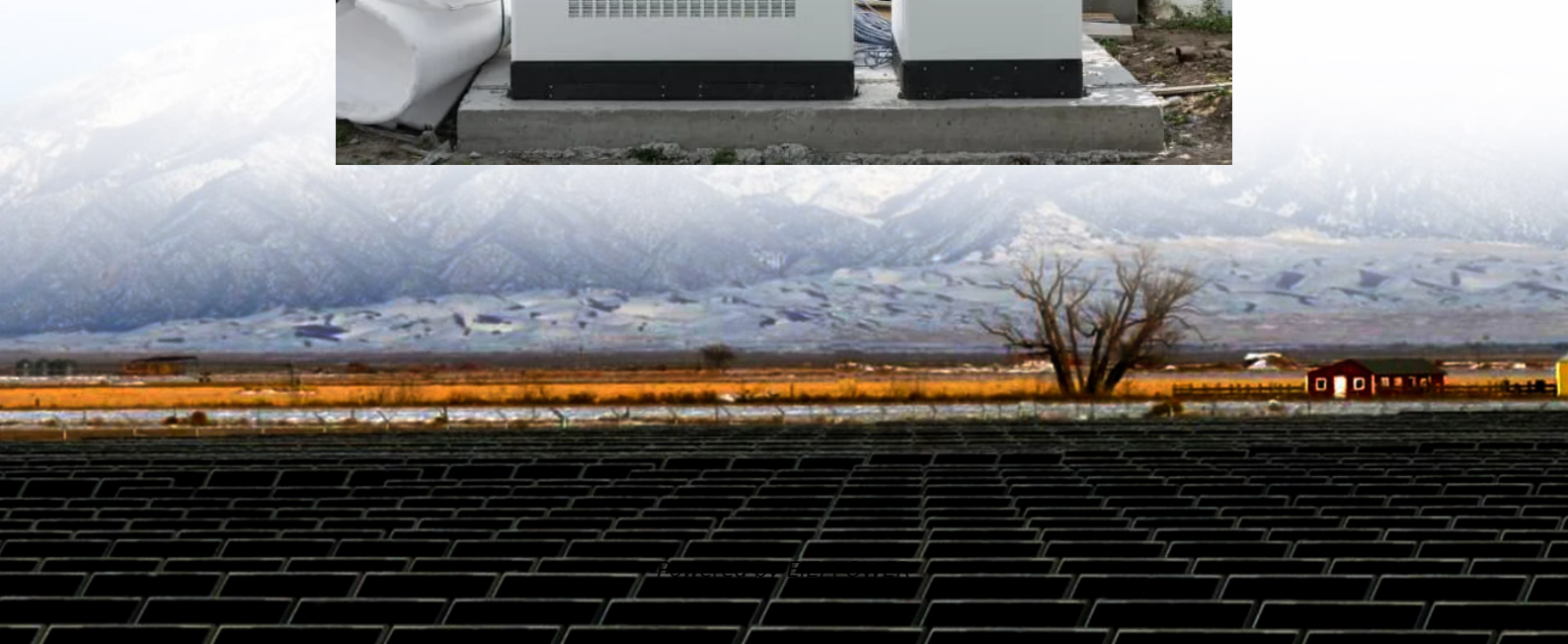


# Off-grid cost of containerized photovoltaic systems for Russian farms





## Overview

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Do agrivoltaic systems exist in Russia?

The aim of this research is to analyze the potential of agrivoltaic systems (AV) on the territory of Russian Federation. Two configurations of AV systems with 3.2m and 6,4m spacing between photovoltaic (PV) arrays were investigated and on the 4m distance above the crop field.

How agrivoltaics can improve rural off-grid electrification?

Using agrivoltaics for combined use of land allows increasing the productivity of agricultural land by 45%-70% according to Land Equivalent Ratio. With creation comfortable conditions of agrivoltaic development, such systems can have huge impact on the rural off-grid electrification, creating autonomous renewable source of energy.

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.



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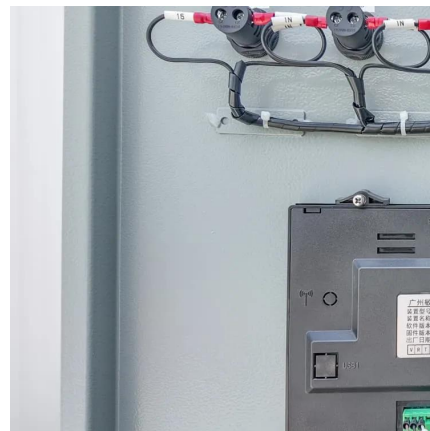
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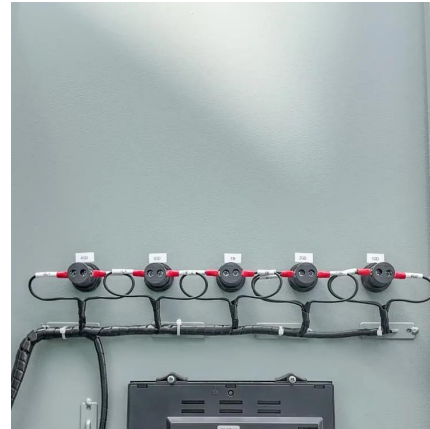
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