

The paper offers the outcomes of the foresight study of the Russian renewable energy sector and focuses on three areas: converting solar energy into electricity; converting wind energy into electricity; and converting biomass into thermal energy and electricity.

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This paper presents the results of studies aimed at regional assessment of the role of the renewable energy industry in Russia in reduction of carbon dioxide emission at grid-connected SPPs and WPPs built under the CSA RES program as of the beginning of 2022.

Russia is rich not only in oil, gas and coal, but also in wind, hydro, geothermal, biomass and solar energy - the resources of renewable energy. Practically all regions have at least one or two forms of renewable energy that are commercially exploitable, while some regions are rich in all forms of renewable energy resources.

We elaborate on a case study of a solar power plant in a southeast Orenburg region of Russia to prove that the economic return on investment of renewable energy projects in this country is not only possible but also economically feasible.

The project of large-scale stage-by-stage implementation of energy systems based on solar energy and other renewable energy sources (RES) in rural settlements of Russia has been worked out. Research was made based on the analysis of regional, climatic, social, economical and technical factors, proposed complex approach to energy supply of rural ...

Russia is rich not only in oil, gas and coal, but also in wind, hydro, geothermal, biomass and solar energy - the resources of renewable energy. However, fossil fuels dominate Russia's current energy mix, while its abundant and diverse renewable energy resources play little role.

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renewable power generation and energy storage in Li-ion battery and solar hydrogen, I argue in this study, is of economic and industrial nature.

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