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ECONOMIC DOCUMENT ON THE BUILDING OF RENEWABLE ENERGY SOURCES FOR ENSURING THE ENERGY NEEDS OF A BUILDING

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***Key words:** Wind turbine, generator, energy, efficiency, propellers, solar panel, photovoltaic, renewable, energy, sources, renewable energy, wind generator,*

***Abstract:** In recent years, the price of electricity has risen every 6 months. This has prevented emerging LED technologies from lowering electricity bills for consumers. However, lowering the power consumption of lighting and other appliances made it possible to power them from renewable alternative energy sources such as sun, wind, water and more.*

The report proposes the idea of installing two types of alternative sources - wind turbines and photovoltaic panels. There is an energy balance between consumption and production. The percentage of electricity produced from different renewable energy sources is calculated. The report has made an innovative proposal to build a complex of energy sources (many small wind generators and solar panels) to partially or fully provide the energy needs of a building. The installation is tailored to the needs and technical possibilities of the building. The economic effect of building the system has been calculated. The economics to be realized by different types of energy sources and the effect of their joint work are calculated. Together with the calculation formulas, examples of calculations are made and for a specific building with wind turbines and solar panels installed on it. The lowest price configuration for solar panels is proposed as well as a way to reduce the cost of the respective wind turbines.