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EFFICIENCY OF ALTERNATIVE ENERGY IN MODERN UKRAINE

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In the current conditions of Ukraine's development, alternative energy is gaining special importance. The state's energy security is one of the key factors of its economic and political stability. Long-term dependence on imported energy resources, as well as the destruction of energy infrastructure as a result of military operations, force Ukraine to look for new, more reliable and environmentally friendly sources of energy. That is why renewable energy sources are considered a promising direction for the development of the national energy sector.

The main types of alternative energy in Ukraine include solar, wind, small-river hydropower, bioenergy and geothermal energy. Solar energy is one of the most dynamic industries, as Ukraine has favorable climatic conditions for the use of solar radiation. Wind power plants, especially in the coastal areas of the Black and Azov Seas, demonstrate high potential for stable electricity production. Bioenergy effectively uses agricultural and household waste, helping to reduce the environmental burden on the environment.

The effectiveness of alternative energy lies not only in reducing dependence on traditional fuel sources, but also in significantly reducing emissions of harmful substances into the atmosphere. The use of renewable energy sources contributes to the fight against climate change and the improvement of the environmental situation in the country. In addition, the development of this industry stimulates economic growth, attracting investments and creating new jobs, especially in the regions.

An important advantage of alternative energy is the possibility of decentralizing the energy system. Small solar and wind power plants, as well as private households with their own energy sources, increase the stability of energy supply and reduce the risk of large-scale power outages. This is of particular importance for Ukraine in the face of constant threats to the energy infrastructure.

Despite significant advantages, the development of alternative energy in Ukraine is accompanied by a number of problems. Among them are the high cost of implementing technologies, insufficient level of state support, the complexity of connecting to power grids and the need to update the regulatory framework. However, the gradual implementation of European standards, international cooperation and innovative solutions open up new opportunities for the further development of the industry.

Priority Directions of Development of Science and Education

Thus, alternative energy is an effective and strategically important direction for modern Ukraine. Its development will contribute to strengthening energy independence, preserving the environment and ensuring sustainable development of the state in the future.