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PEDAGOGY AND PSYCHOLOGY

DEVELOPMENT OF WORLD ENERGY

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Currently, the problem of uninterrupted provision of the economies of the countries of the world with cheap energy resources is acute. The price of oil, natural gas, hard coal and brown coal on the world market continues to rise. The development of nuclear energy is limited by the need to increase the safety of nuclear reactors, and the problems of burying nuclear fuel cycle waste. The Fuel and Energy Complex (FEC) is the leader in terms of the joint negative impact on the natural environment, and as a result, on people's health. An alternative to fuel energy resources could be renewable energy sources - an almost unlimited source of energy. The problems of their mass application are related to the complexity of forecasting the work and the need to build large plants for collecting scattered energy. Currently, they cannot displace fuel resources.

However, the development of the economy based on alternative renewable energy sources in the world is conditioned by: first, the need to reduce the dependence of a number of countries on oil and gas imports; secondly, for environmental reasons - the reduction of anthropogenic impact on the environment and, thirdly, the technological advantage of countries possessing the technology of energy production from renewable sources.

Among the renewable sources of energy, hydropower (produced centrally on the basis of large Hydroelectric Power Stations - HPS), as well as non-traditional or alternative - that is, all other renewable sources of energy - are distinguished, first of all.

International Energy Agency (IEA) refers to alternative renewable energy sources: urban waste, solid biomass, biogas, liquid biofuel, geothermal energy, solar thermodynamic and photovoltaic energy, hydropower used at low-power hydropower plants, sea wave energy and wind energy

In addition, it should be noted that new renewable energy sources in the countries of the European Union and many other foreign countries are often called alternative energy sources.

According to the International Energy Agency, the share of renewable energy sources (RES) in the global consumption of primary energy sources (RES) over the past 20 years remained practically unchanged and averaged about 12%. Energy based on the use of traditional energy sources and energy based on the use of alternative energy sources developed at quite comparable rates.

Trends in the development of world energy convince us that the development of alternative energy is necessary for environmental and economic reasons. The ecological reason for the development of alternative energy - the reduction of harmful emissions and the use of waste - is equally relevant for all countries and peoples. Economic

reasons include increasing energy security by reducing dependence on oil and gas imports.

In our country, the introduction of alternative energy sources is economically necessary, firstly, in areas of decentralized energy supply, remote regions that do not have access to a unified energy infrastructure. Secondly, it is in demand in those regions where natural, first of all, climatic conditions impose restrictions on the construction of large energy facilities, the laying of energy infrastructure.

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