

UDK 620.91

SOLAR ENERGY AS ALTERNATIVE ENERGY SOURCE: ADVANTAGES AND DISADVANTAGES

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It is noted solar energy in terms of installed capacity is located on the 4th place after coal, gas generation and hydroelectric power plants [1].

We consider the transition to alternative energy sources is an inevitable part of the further development of mankind. Traditional energy sources (coal, oil, nuclear power plant and others) may soon run out and negatively affect the environment. Excessive carbon dioxide emissions lead to a greenhouse effect, and emissions of sulfur or nitrogen into the atmosphere can lead to acid rain.

Consider the advantages of solar energy which include [2]: the environmental safety of installations, inexhaustibility of energy source in the long term, low cost of energy received, availability of energy production, good prospects for the development of the industry. However, there are also disadvantages of solar energy, such as: dependence of the amount of energy produced on weather conditions; seasonality of work; low efficiency; high cost of equipment.

Based on the above, we can say solar energy has good prospects for its active development: new materials and technologies appear, which leads to a reduction in the cost of equipment and an increase in the efficiency of installations.

References

1. The sun overtakes the wind in the energy sector [Electronic resource]. – Mode of access: <https://eenergy.media/2020/09/10/solntse-obgonyaet-veter-v-energetike/>. – Date of access: 08.02.2022.

2. Solar energy [Electronic resource]. – Mode of access: <https://alter220.ru/solnce/solnechnaya-energiya.html>. – Date of access: 08.02.2022.