

Production of an Improved Version of Alternative Energy Sources

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Abstract: The article addresses some of the shortcomings of alternative energy sources and develops their improved versions.

Keywords: Solar energy, wind energy, heat sensors, water pumps, temperature.

Introduction: Recently, social and economic development of the population in our Republic has been paying great attention to meeting the needs of the people, improving the living conditions of the population, producing and delivering cheap and ecologically clean energy to the population. Today, we cannot imagine roads in cities and villages without a lighting system. At the time of the development of urbanization, the demand for electricity is growing.

For all practical purposes necessary for the effectiveness of alternative energy sources, social benefits, as well as economic competitiveness, energies including solar or wind are used. An international symposium was held in Delhi in collaboration with India. In 1973, an international congress was held in Nigeria and in Paris in 1973 on the theme "The sun is at the service of man". All these symposises were the beginning of getting alternative energy. Decree of the President of the Republic of Uzbekistan dated 01.03.2013 No. PQ-4512 on measures to further develop alternative energy sources and dated 01.03.2013 "On the establishment of the International Solar Energy Institute" As part of the implementation of the decision PQ-1929, a solar energy institute was established on the basis of the scientific production association "Solar Physics". This paved the way for the development of alternative energy in Uzbekistan.

Problems: Today, the demand for conventional electricity generation is increasing all over the world. However, they emit a large amount of carbon dioxide (C₂O) and carbon dioxide (CO) into the environment. These have a great impact on the flora and fauna. In terms of energy efficiency and stability, there are relatively few NPPs, thermal power plants, and hydroelectric power plants, but alternative energy sources are one of the current topics today. Currently, the demand for electricity in urban and rural areas is increasing. This causes problems in supplying a certain amount of electricity. This has a great impact on economic development. It has an impact on the development of private business and entrepreneurs in our country.

Solution: Our system is designed to prevent the solar panels from heating up during the summer and to cool the solar panels and prevent these dusty conditions when dusty conditions are observed. This replaces the energy obtained by human power. We can use this structure to cool the solar panels.



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Figure 1: Thermal sensor that determines the heating temperature of the solar panel.



Figure 2: The installation process of the Koyosh panel.

Result: The advantage of our above arrangement over the previous solar panels is that when the temperature reaches a certain temperature, the cooling sensors installed in it start the pump installed in the cooling tank and cool it until it reaches a certain temperature and this temperature is maintained. As a result of this, when the temperature rises during summer days, the electricity output from the solar panels does not fall below the nominal level.

Conclusion: Alternative energy harvesting shows that the way to use a lot of electricity is now opened for factories and factories. This opens a great way for the development of our country's economy. We can use this structure in power stations with many solar panels, in power stations located in the buildings of the Ministry of Higher and Secondary Special Education. Through this, we distinguish the environment with ecological purity and economic activity.

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