

Perspective Development of Wind Energy in Uzbekistan

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Abstract: This article discusses current issues of wind energy in Uzbekistan and its development. The article also offers the highest quality types of wind turbines and the design of modern wind farms. In addition, special attention is paid to the construction of a lot of wind generators in Uzbekistan.

Keywords: Non-traditional energy sources, wind energy, inexhaustible resources, wind power stations, alternative energy, wind turbines, wind wheel, impeller and rotary types of wind turbine.

Introduction

It is known that mankind consumes a lot of natural raw materials, and with each new day the cost of using electricity is growing more and more. Mankind is facing a rather important question as to how to recover these costs. Even if you do not touch on the problem of the energy crisis, traditional raw materials such as oil, coal, gas will once be exhausted, and the task will be to develop new harmless, unconventional energy sources. Truly inexhaustible are only the wind and the sun, in addition, they do not make significant changes in the natural balance. Further, we will focus on the achievements of global wind energy and the prospect of its development in Uzbekistan [1].

Materials and methods

If we talk about the very first achievements that can tame wind energy in the right direction, it is impossible not to mention the sail. Then windmills appeared, and they were replaced by wind turbines capable of not only converting wind energy, but also generator electric energy [2].

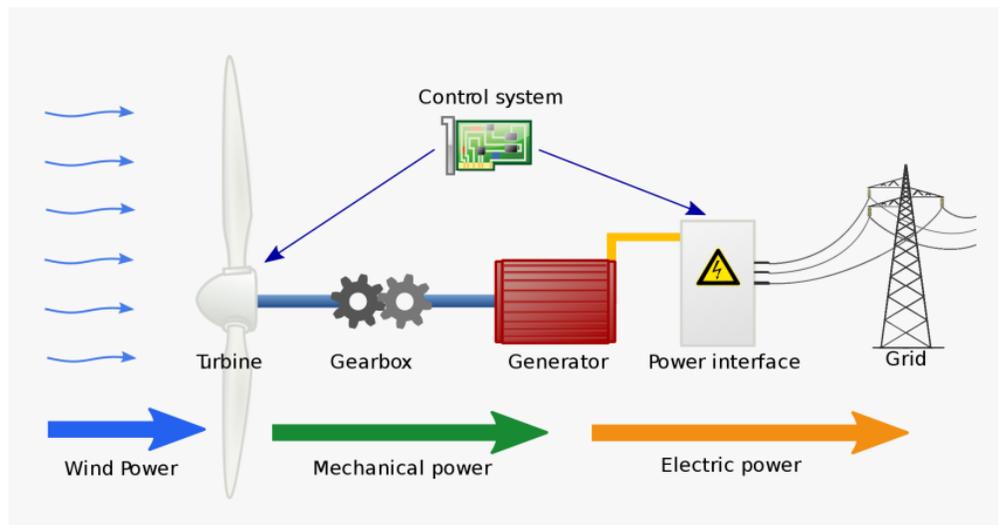


Fig.1.The principle of operation of the wind generator

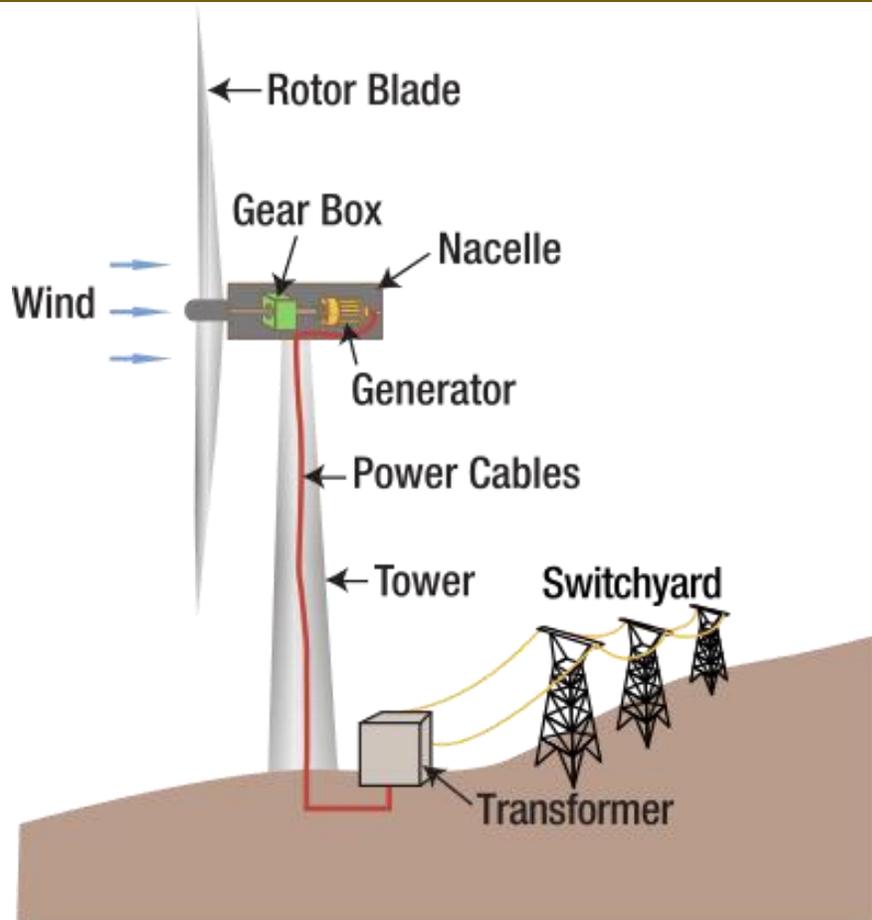


Fig.2. Layout form of a wind generator for the population

If we talk about the state of wind energy in Uzbekistan, then in comparison with developed countries, where this industry is rapidly and rapidly developing, we also develop wind energy with some complications.

Conclusion

In conclusion, I would like to say about the prospects for the development of wind energy in Uzbekistan. Of course, for the construction of both large and small wind farms, our country has even very great potential. First of all, these are huge undeveloped spaces and zones of high wind. These areas include the Kyzyl Kum desert, Aydarkul Lake, Ustyurt Plateau, as well as local anomalous zones.

However, despite all the geographical and climatic advantages, our country still does not have huge wind farms, or any single wind turbines for power supply of rural villages or a summer house cooperative. The reason for all is one - the lack of investment. If in Europe the construction of a wind farm occurs mainly at the expense of public money, including joint-stock companies and large business investments, without affecting the state budget. In Uzbekistan, this is being implemented gradually, since the state and non-state budgets are aimed at this aspect. If we build a lot of wind power stations in the Republic, then in our country the people themselves can provide themselves with electric wind power.

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