



Effectiveness Of Education in the Training of Specialists of Alternative Energy Sources (Solar and Energy) on the Basis of Innovative Technologies of Education

Yuldashev Farrukhjon Murod o'g'li

Email: fyuldashev.1992@gmail.com
An assistant of the Jizzax Polytechnic Institute

Yuldashev Javohir Murod o'g'li

A student of the Jizzakh Polytechnic Institute

ABSTRACT

The widespread use of alternative energy sources is in line with the priorities and energy security objectives of each country and is one of the fastest growing areas of the energy sector. Certain work is being carried out in the country on the development of renewable energy sources, first of all, the use of hydro power potential. Decree of the President of the Republic of Uzbekistan No. PQ-4512 of 01.03.2013 "On measures for further development of alternative energy sources" and 01.03.2013 "On the establishment of the International Solar Energy Institute" The Institute of Solar Energy was established on the basis of the Physics-Sun Scientific Production Association as part of the implementation of the Resolution No. PP-1929. SJS "Uzbek energy" is one of the founders of this institute.

Keywords:

Energy, wind, solar, expert, technology, alternative, education, innovation

Today, it is important to improve the quality of teaching physics in educational institutions, the introduction of modern teaching methods in the educational process, the selection of talented students, the training of competitive professionals in the labor market, the development of research and innovation and practical results. attention is being paid. The purpose of the decree is to continue to conduct research and experimental-industrial development at a higher technical and scientific level, taking into account the accumulated experience, to implement some solutions for the use of alternative energy sources in our country, taking into account

world experience. The development, as well as modern equipment and technologies for the industry, to increase the effectiveness of training of specialists is aimed at taking measures to organize production here. Most importantly, it calls for improving the legislation in the field and drafting a law on alternative energy sources. In addition, the practice of such important tasks as the development of a national plan, a special program in the field of renewable energy, the creation of a system for training in higher and secondary special education in this area is important. This is because the practical use of alternative energy sources in the context of

declining global reserves of hydrocarbons is considered to be the most important factor in sustainable economic development and competitiveness.

On training, retraining and advanced training of specialists in the field of energy efficiency in the training of specialists in alternative energy sources (solar and wind energy), the introduction of energy-saving technologies and the development of renewable energy sources on the basis of innovative educational technologies Establishment of training centers (except for construction of buildings and structures) and seminars. Today, scientific and technological progress requires the introduction of innovative technologies not only in a large number of industries, in the training of specialists in alternative energy sources, but also in cultural, social and humanitarian knowledge, including education. It is known that the "National Training Program" has repeatedly stated that "providing the educational process with advanced pedagogical technologies" and identified it as one of the serious tasks to be performed in the stages of improving the quality of continuing education. was.

Therefore, the competence of teachers in innovative educational technologies in higher education institutions must meet the following basic requirements:

1. the teacher must have the skills to teach, to educate, to monitor the knowledge of the learners and to evaluate objectively;
2. be able to use innovative pedagogical technologies in the organization of the educational process. The educator-teacher must have the following qualities in order to fulfill the responsible and urgent tasks assigned to him, to form new views on the educational process:
3. have a deep understanding of the essence of modern scientific, cultural and innovative technological development;

4. a deep and broad understanding of the system of knowledge about the world and man;
5. introduction of computer training and other technical means of teaching in the educational process;
6. have an understanding of the Internet and an in-depth analysis of the content of information technology in it.

In recent years, many countries have opted to build wind farms. Most are located in Western Europe, the United States, India and China. Denmark is known around the world for its energy-saving, centuries-old knowledge and experience in the field of nature conservation. In this country, 25 percent of energy is derived from wind, and 90 percent of all waste is recycled or converted into energy. This indicates that a lot of work is being done to improve energy efficiency in the training of specialists in alternative energy sources (solar and wind energy) on the basis of innovative educational technologies. Experts estimate that the total potential of wind energy in the country is 2.2 million tons of oil equivalent.

In short, today the field of using the thermal effects of sunlight is also becoming increasingly popular. In particular, large investments are being made in the construction of "solar houses". Our sunny country also has the potential to build "solar houses", heat them with sunlight, provide them with hot water and photovoltaic energy. The development of innovative projects aimed at the use of environmentally friendly energy sources in our country, the wide involvement of local and foreign investment sources in them will serve to ensure the prospects of this sector. These are the opportunities we are giving to young people.

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