

SOLAR POWER PLANTS

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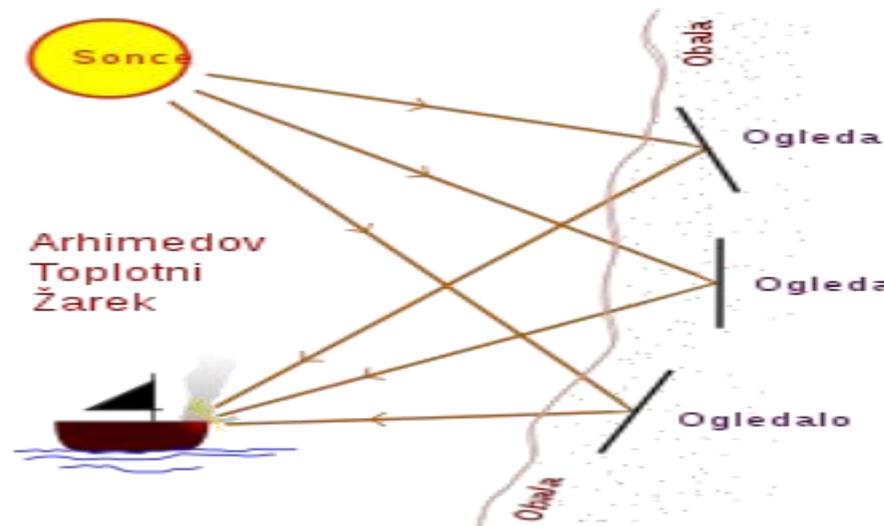
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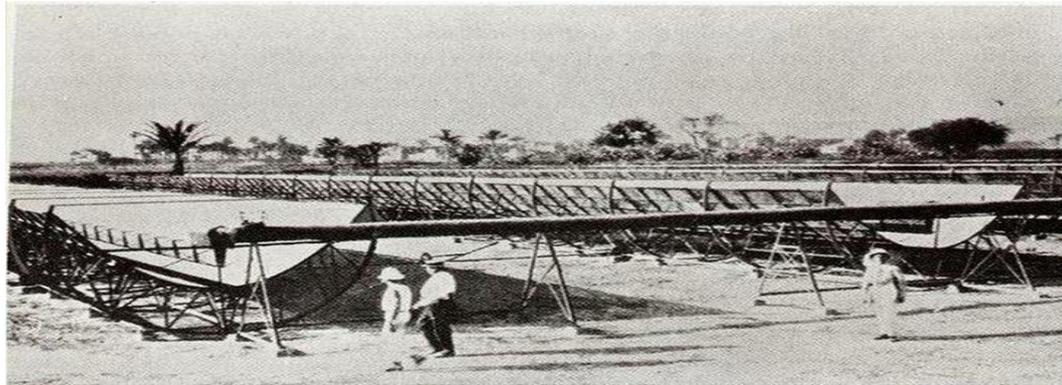
Annotation: This article summarizes the use of alternative energy sources, which are currently considered important all over the world, in particular, solar electric stations and related issues.

Keywords: Solar electric station, alternative energy, natural resource, energy, economy.

The demand for the use of alternative energy sources is also increasing as the need for energy sources increases day by day. Due to the climate of O'rat Asia, that is, the fact that most of the year is sunny even on winter days, it is convenient to use solar power plants. It also costs less than other sources of electricity, both in frustration and ecologically. Work on this has been carried out on a large scale since the middle of the last century. The use of solar energy dates back to ancient times, exemplified by Archimedes directing and burning the sun's rays towards enemy ships using special mirrors.

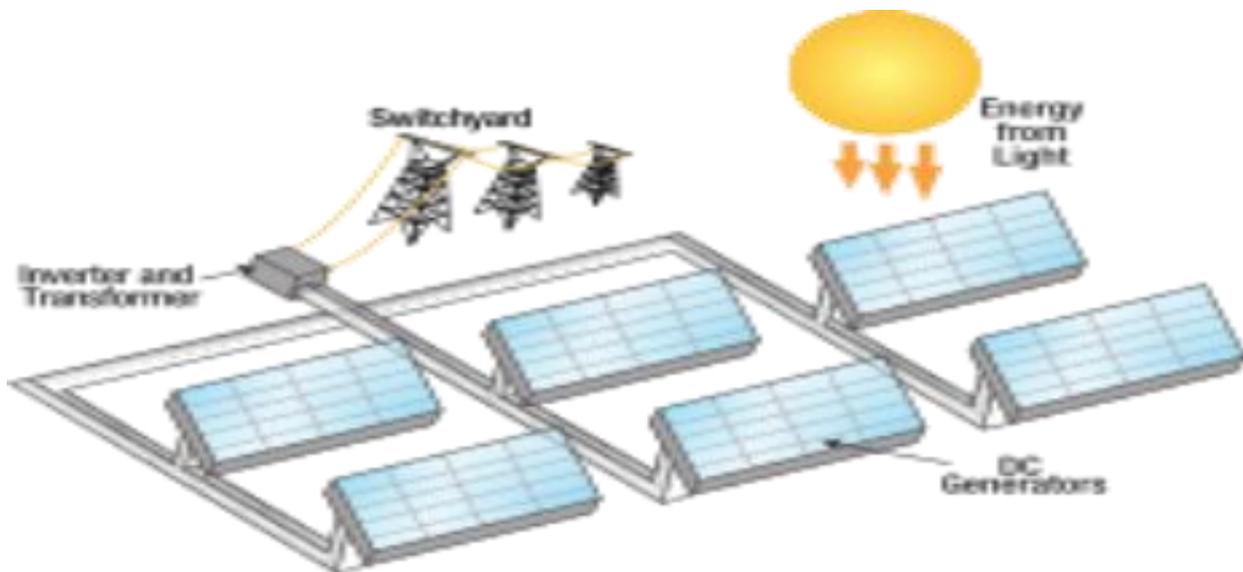


The widespread use of alternative energy sources is in accordance with the priority goals of each country and energy security tasks and is considered one of the rapidly developing areas of the energy sector. The first solar power plant was built in Egypt in 1913. He settled near the city of Maadi, 25 kilometers from the capital of Egypt – Cairo. Its" author " was the American engineer Frank Schumann. The station used a polished steel mirror capable of delivering 60 hp, enough power to propel the steam engine.



From the beginning of the 20th century, the emphasis on the field became more intense. Looking back on history, a unique invention was introduced to life in 1954 by the laboratories of the Bell Telephone Company in New York. It had the property of being able to provide solar energy directly into electricity. It soon became economically acceptable not only for spaceflight but also for daily living purposes. "In order to effectively use solar and wind energy in the national economy, the 1954 UNESCO India cooperation International Symposium was held in Delhi. 1961 UN Rome hosted the next international symposium on the improvement of solar, wind and geothermal devices energy devices and the further strengthening of its use in the national economy. International congresses were held in Nigeria in 1972, and in Paris in 1973 on "the sun in the human service". At these conferences, the issues of heating houses from solar energy in the winter and creating a microclimate in the summer, converting solar energy into electricity and its heat and electricity, converting wind energy into electricity and thermal energy, solving the problems of converting solar energy into organic raw materials, developing their devices were considered."The use of solar electric stations has also caused new opportunities to arise. In particular, as a result of the construction of such stations in remote areas themselves, the infruction in such areas is greatly contributing to the change. Today, the people's Republic of China leads in the use of solar energy on a global scale. According to statistics in 2021, in terms of the share of solar energy in total electricity production, Australia in the world leads with an amount of 15.5 percent. Solar power plants (QES) are said to be devices that convert heat and light energy from the sun into electricity. We know that electricity is the energy that is easiest to transform from one type to another. Not only is it easily transformed from one species to the second , but maybe it helps to easily complete tasks of a difficult level that humanity cannot do with the power of the wrist. By now, as a result of the increased need for electricity, humanity is becoming dependent on alternative energy sources. It is a cheap, high-quality, low-cost energy source that is needed to meet these needs. Due to the scarcity and cost of non-renewable resources, many nations are trying to ensure their own energy consumption through renewable resources. Therefore, the development of solar energy also remains one of the pressing issues. Earth's atmosphere receives 120,000 TW (terawatt, 1,012 w) of energy per year from the sun. True, not all this energy can be mastered, but even 0.002% of it will be enough to completely compensate for the world's need for energy. This is another urgent problem not only in our country, but all over the world, the issue of saving electricity and thermal energy, and there is also work to be done in this area. It is very important to replace lighting with lighting that saves electricity and is produced on our own. The application of smart home technologies, at the same time, would be the same if the attention of Architects was paid to the design of energy-saving houses for residents living in rural conditions and the creation of technologies for their construction at the expense of local raw materials. Solar photovoltaic plants can become full-fledged sources of electricity for objects located away from

power lines. The surface area of solar panels used in solar photovoltaic plants is an extremely important part. This can be used when using separate pumps using power plants. Electricity can be provided by installing a special photovoltaic station for residents or farms.



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