S g solar power system Turkmenistan

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One of the most important areas is the development of scientific bases for the use of photovoltaic and wind power plants in Turkmenistan. In order to protect the environment and introduce environmentally friendly "green" technologies in the country, a project was developed for a photovoltaic solar power plant and its elements. Specialists

Turkmen scientists have developed digital systems for the design of a photovoltaic solar station, as well as for the development of a solar cadastre. It allows quickly and accurately determine the amount of accumulated energy, the angle of radiation deflection, its intensity, and other indicators.

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Based on the methodology developed by the specialists of the Research and Production Center, pilot projects have also been implemented for a combined gas turbine and solar power station with an installed capacity of 50 MW, as well as a solar-hydrogen system to increase the energy efficiency of decentralized consumers.

Solar energy is the most renewable energy source available. Today"s technology enables us to capture solar energy for several uses, including electricity, heating and cooling systems, lighting and concentrating power.

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In July 2022 Çalik Enerji started the construction of a 10 MW hybrid solar-wind power plant near the recently completed artificial lake Altyn Asyr following the presidential decree. The operation of the power plant is expected to start by January 2024. Çalik Enerji is the leading energy infrastructu

In the near future, a solar and wind power plant with a capacity of 10 megawatts will be commissioned, symbolizing the beginning of alternative energy implementation in the country. Moreover, a combined power plant is being constructed on the Caspian Sea coast, which will increase exports to Europe.

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