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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

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 ...

According to the state news agency of Turkmenistan, the power plant will consist of a 7 MW solar PV field and a 3 MW wind power plant. The capacity of the solar PV plant is decent for a first solar PV project in the country, which translates to roughly 7 hectares of land for installations.

Because the introduction of solar PV would mitigate the country's reliance on natural gas-powered generation, it would also have a large impact on decarbonization efforts. The technical potential of wind power in Turkmenistan is estimated at 10 GW of capacity.

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The Turkish company will implement the turnkey construction of the hybrid power plant in Serdar etrap of Balkan velayat. The Turkish energy company "Alk Enerji will build hybrid solar-wind power plant with a capacity of 10 megawatts in Turkmenistan.

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.

Masdar, the UAE-based global renewable energy company, has signed a joint development agreement with Turkmenenergo State Power Corporation of the Ministry of Energy of Turkmenistan (Turkmenenergo), to develop a 100-megawatt (MW) solar photovoltaic (PV) plant, which will be the company's first project in Turkmenistan.

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