

UAE-based energy firm Masdar has signed a joint development agreement (JDA) with Turkmenistan's state-owned power company Turkmenenergo to build a 100MWac solar photovoltaic (PV) plant. The JDA builds on a memorandum of understanding (MoU) signed last October between Masdar and the Turkmenistan government.

The paper presents an analysis of the potential of solar energy in the regions of Turkmenistan. Based on the calculations of solar radiation in the regions of Turkmenistan, an estimate of the ...

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.

At present, construction and installation work has been completed at the site of the combined solar and wind power station with a total capacity of 10 MW in Balkan velayat, and infrastructure is being formed for the preparation and delivery of electricity to consumers.

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UAE-based Masdar and Turkmenistan's Turkmenenergo State Power Corporation entered a joint development agreement to build a 100-megawatt alternating current. In a statement, Masdar said the agreement marks its first project in Turkmenistan.

Turkmenistan has tremendous potential for harnessing solar energy. With more than 300 sunny days annually and with average annual intensity of solar radiation ranging between 700-800 watts per square meter (W/m²), the total technical potential of solar energy amounts to 655 GW (Seitgeldiev 2018; UNDP 2014).

The paper presents an analysis of the potential of solar energy in the regions of Turkmenistan. Based on the calculations of solar radiation in the regions of Turkmenistan, an estimate of the amount of solar energy received by the solar panel was obtained.

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

Solar PV: Solar resource potential has been divided into seven classes, each representing a range of annual PV

output per unit of capacity (kWh/kWp/yr). The bar chart shows the proportion of a country's land area in each of these classes and the global distribution of land area across the classes (for comparison).

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