Smart solar living 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).

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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.

2022?7?,??????????????Smart Solar,???????????? ??????(IPO)? ?????????1.5???? ?????????,?????????50%?

According to the plan of the National Leader of the Turkmen people, the city of Arkadag, which is assigned the status of a city of state importance by a special Law, will be the first «smart» city in the country with environmentally friendly transport (electric buses and electric cars), «smart» parking lots, solar panels, wind turbines, etc.

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Located about 30 kilometers (about 18 miles) south of the capital Ashgabat, the "smart city" is being presented as a prototype for other Turkmen cities, featuring electric buses and automobiles, solar power and "smart" houses that residents can control via their smartphones. The first phase of Arkadag cost an estimated $3.3 billion.

In line with the government"s focus on promoting digitalization, the scientists at the Research and Production Center (RPC) utilize their own developed software, such as the "Digital System for Designing

Photovoltaic Solar Stations" and the "Digital System for Solar Cadastre Development".

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«Smart and sustainable cities have a positive impact on the environment, as the main theme of their development is to reduce CO2 emissions, improve energy efficiency and storage of energy, as well as develop its alternative sources,» said John McGregor, Head of the OSCE Center in Ashgabat.

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