

What share of the country's energy consumption comes from solar power? Low-carbon energy can come from nuclear or renewable technologies. How big of a role do renewable technologies play?

Energy production includes any fossil fuels drilled and mined, which can be burned to produce electricity or used as fuels, as well as energy produced by nuclear fission and renewable power sources such as hydro, wind and solar PV.

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.

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/m<sup>2</sup>), the total technical potential of solar energy amounts to 655 GW (Seitgeldiev 2018; UNDP 2014).

emissions from renewable power is calculated as renewable generation divided by fossil fuel generation multiplied by reported emissions from the power sector. This assumes

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Abu Dhabi-based renewable energy developer Masdar and Turkmenistan's power utility Turkmenenergo have signed a joint development agreement for a 100 MW solar park in Turkmenistan.

Turkmenistan's continental and dry desert climate offers tremendous potential for solar power plants. Especially in the regions Kuli, Gasan and the capital, Ashgabat, the surface receives the most usable sunlight in the CIS region (GTZ, 2009). In 2010, Turkmenistan had the world's fourth largest proven gas reserves, giving

Renewables such as solar panels, wind turbines and hydroelectric dams generate electricity without burning fuels that emit greenhouse gases and other pollutants. As the costs of solar panels and wind turbines have fallen dramatically in recent years, renewables now represent the cheapest source of new electricity generation in many parts of the ...

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