

We analyze the potential of solar and wind energy sources in Afghanistan's most populous provinces (Balkh and Herat) for large scale grid-connected power generation to meet a fraction of the growing Afghan electricity demand. The analysis is ...

3 Solar Energy o300 Sunny day in one year, i.e. 3,000 Hours of Sun o6.5 kWh/m<sup>2</sup> per day solar radiation average oOver 100,000 (over 650 Villages) solar home systems (SHSs) have been installed in various parts of the country. 4 Bio-Mass oMore than 85% of Afghanistan's energy needs are met by traditional biomass, mainly wood and dung

Satellite-based solar insolation models and data collected in 2004-05 show large solar assets for the southern and western regions, dry and high reflective zones like deserts, plateaus and upland pasture hillocks. For Afghanistan, both lower latitude plus high-plateau terrain result in excellent solar assets.

This paper aims to analyze the theoretical, practical, and economic potential of solar energy in Afghanistan with the main focus on PV power technology.

Afghanistan has significant potential for solar energy production, estimated to exceed 220 GW. 10 The government has ambitious plans to develop 2,000 MW of solar power by 2032 to boost the nation's electricity supply. 11

According to the estimate of the solar electricity map of Afghanistan, solar energy constitutes 72.1% of the country's usable energy and has the capacity to produce 222,849 megawatts of electricity, which shows the current production of solar electricity compared to this figure of 0.03% . .

o Determine energy to be curtailed from other generation sources o Compare the PV plant energy price to cost of supply and cost of unserved demand

Afghanistan's Energy Sector Strategic goal is to provide sustainable power supply, at affordable prices, and in an environmentally sound manner, for economic growth,

Afghanistan has huge potential for solar and wind energy generation besides the hydropower, therefore it has been suggested by Afghanistan National Development Strategy (ANDS) program to consume renewable energy in rural areas.

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# Solar energy cost Afghanistan

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