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The Renewable Energy Policy of 2008 focuses on issues like fuel availability, emissions, and energy security. The revised draft has a broader vision that prioritises eficient, sustainable, secure, afordable, competitive, and environmentally friendly power systems.

The Renewable Energy Policy issued by the Government of the People"s Republic of Bangladesh, defines the necessity for the country to develop renewable energy technology. Indeed, in Bangladesh efficient utilization of renewable energy resources is yet to assume commercial dimensions and hence rational policy dissemination on renewable energy ...

Bangladesh has ambitious solar and green energy goals including building best solar systems in Bangladesh. The country plans to generate 4,100 MW of clean energy by 2030, consisting of 2,277 MW from solar, 1,000 MW from hydropower, and 597 MW from wind power.

The objectives of the Renewable Energy Policy of Bangladesh include: to harness the potential of renewable energy resources and dissemination of renewable energy technologies...

Despite the intentions outlined in Bangladesh"s 2008 renewable energy policy, which aimed for 10 percent of electricity to be sourced from renewables, the country has achieved a modest three percent from renewable sources. Despite initial targets of generating five percent of its electricity from renewables by 2015 and 10 percent by 2020, as of June 2023, Bangladesh has fallen well short of these goals. The government has now established new objectives, aiming to achieve 15 percent of electricity from renewables by 2030, 40 percent by 2041, and 100 percent by 2050.

In alignment with its commitment to a low-carbon development path, Bangladesh is increasingly focusing on renewable energy and energy efficiency. The country has installed 541.7 MW capacity solar power plants, with an additional 911.8 MW in progress, alongside a 149 MW wind power plant. Moreover, over six million solar home systems have been installed in off-grid areas, and 4.5 million improved cook stoves have been distributed in rural regions across the country.

There is significant potential for solar energy in Bangladesh. Not only is the low-lying country committed to growing its renewable energy capacity, but the population of over 170 million is growing at 1% annually. This growing population and its developing economy generate an average energy demand increase of 4.68% annually.

However, Bangladesh relies heavily on domestic and imported fossil fuels, which has led to an ongoing energy crisis. Rolling blackouts and load sharing have plagued the country during 2024, throttling the economy and highlighting the concerns of fossil fuel dependence.

More than ever, it is clear that Bangladesh needs to invest rapidly in renewable energy sources to create a resilient grid that can support its growing capacity requirements. Solar can potentially take a leading role in these decarbonisation efforts, and its capacity isalready growing.

Bangladesh is well-suited to decentralised and utility-scale systems. Its capital, Dhaka, is the world"s fourth-most densely populated city, whereas many other parts of the country are rural and sparsely populated. Looking at Bangladesh as a whole, it has an average theoretical solar potential of around 4.59 GHI, which puts it around the middle in comparison to other countries. In this case, the situation is good and means that solar is viable.

On the other hand, utility-scale solar is mainly undeveloped. Bangladesh is a low-lying country with high solar irradiation levels, giving it the potential for large-scale PV farms. Additionally, it is located in thelargest river deltain the world - the Ganges Delta - which means a lot of water among a predominantly flat landscape.

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