

Saudi Arabia has among of the world's greatest levels of solar radiation, making it one of the best nation suited to use solar energy [86]. Fig. 7 shows the solar PV power potential map for various parts of Saudi Arabia.

The article provides an overview of the energy landscape in Saudi Arabia and investigates the progress of solar PV deployment in Saudi Arabia, analyzing growth trends, capacity additions, and the role of policies and regulations in supporting the sector.

This article's main contribution is developing a comprehensive and conceptual policy framework for Saudi Arabia's sustainable green energy transition aligned with Vision 2030.

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With a goal of sourcing 50 percent of its electricity from renewable sources by 2030, the Kingdom is investing heavily in solar energy, capitalizing on its abundant sunlight.

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The future of solar energy in Saudi Arabia is promising, with potential advancements in solar technology and further integration into the national energy grid.

Saudi Arabia is now focused on renewable energy strategies, with solar being a core focus of reaching their 2030 targets. Saudi Arabia has been the cornerstone of the global energy supply for decades.

Saudi Arabia is the largest country in the Middle East with huge solar energy resources but has achieved minimal adoption of photovoltaic energy systems (PV). This study investigates the potential of PV systems to

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Leveraging its abundant sunshine and vast desert areas, Saudi Arabia is now pivoting to solar energy, aligning with its Vision 2030 plan to diversify its economy and ensure sustainable growth by reducing oil dependency and investing in renewable energy.

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The transition to solar energy is underway in select regions of Saudi Arabia, chosen for their solar generation potential. Key locations include Sakaka in Al Jouf Province, Al Shuaibah in Makkah Province, Sudair in ...

One of the most promising collaborations to watch is between Saudi Arabia and the United Kingdom on Space-Based Solar Power (SBSP). As the name suggests, this technology collects solar energy from space and transmits it back to Earth.

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