



Photovoltaic (PV) technology is a key component of renewable energy. It converts sunlight into electricity using semiconductor materials. The efficiency of PV panels has improved significantly over the years, making them a more viable option for large-scale power generation. This technology is essential for reducing carbon emissions and promoting sustainable energy solutions.

According to the International Energy Agency (IEA), solar power is expected to become one of the most widely used energy sources by 2050. The rapid growth of the PV market is driven by technological advancements and decreasing costs. In 2023, the global PV capacity reached approximately 1,000 GW, with a projected increase to 21 GW by 2025. This growth is supported by government incentives and a growing awareness of the benefits of clean energy. The PV industry is a prime example of how innovation and investment can lead to a more sustainable future.



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