

# Solar Photovoltaic Power Generation in High-tech Zone

What is solar photovoltaic technology?

Development of PV Technology Solar photovoltaic facilities are solely employed to generate electricity in one or more ways. The primary PV technology that has been applied is around 90% of the PV installed capacity based on the silicon PV cell. Those technologies have given solid support to the global PV industry for a long time.

Is solar photovoltaics ready for the future?

Solar photovoltaics (PV) is a mature technology ready to contribute to this challenge. Throughout the last decade, a higher capacity of solar PV was installed globally than any other power-generation technology and cumulative capacity at the end of 2019 accounted for more than 600 GW.

Why is PV technology the most attractive technology for power generation?

Through continual innovation in PV technology thereon, driven by energy poverty, global competition, and the need to curb greenhouse gas emission, presently PV technology has become the most commercially attractive technology for power generation, and has become an inseparable part of the global society.

What is solar photovoltaic (PV)?

Solar photovoltaic (PV) is an increasingly important source of clean energy and is currently the third-largest renewable energy source after hydropower and wind, accounting for 3.6% of global energy production [1,2].

What is the progress made in solar power generation by PV technology?

**Highlights** This paper reviews the progress made in solar power generation by PV technology. Performance of solar PV array is strongly dependent on operating conditions. Manufacturing cost of solar power is still high as compared to conventional power. **Abstract**

Is solar PV a strategic renewable technology?

This report clearly points out that solar PV is one of the strategic renewable technologies needed to realise the global energy transformation in line with the Paris climate goals. The technology is available now, could be deployed quickly at a large scale and is cost-competitive.



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