

Which solar power technologies can be used for sustainable electric power generation?

In this article, different solar power technologies have been reviewed which can be utilized for the global sustainable electric power generation. Major emphasis has been on solar photovoltaic (PV) and concentrated solar power (CSP) technologies. Their types, mechanism, efficiency and cost factors have been discussed.

What is solar power?

Solar power is the conversion of sunlight into electricity, either directly using photovoltaic (PV), or indirectly using concentrated solar power (CSP). The research has been underway since very beginning for the development of an affordable, in-exhaustive and clean solar energy technology for longer term benefits.

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**

What are the basics of solar energy technology?

Learn solar energy technology basics: solar radiation, photovoltaics (PV), concentrating solar-thermal power (CSP), grid integration, and soft costs.

How does solar energy generate electricity?

As source of electricity generation, Fig. 9.1 Power generation from solar energy by region (in TWh). (Authors' own L. EICKE ET AL. this eld induces a direct electrical current. This process is known as the photovoltaic effect. Electricity generation exploiting this effect is not only possible cells also generate electricity with cloudy skies.

Can solar power be used for sustainable electricity generation?

Solar power systems are relatively affordable and they are suitable for both urban and rural areas. With this background, solar power technologies which can be utilized for the development of a sustainable electricity generation have been thoroughly reviewed in this research work.

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