

How to promote photovoltaic solar energy

Why is solar PV technology important?

The costs of manufacturing materials for PV devices have recently decreased, which is predicted to compensate for the requirements and increase the globe's electricity demand. Solar energy is a renewable, clean and environmentally friendly source of energy. Therefore, solar PV application techniques should be widely utilized.

What are the benefits of solar energy?

Solar energy would help steady energy prices and give numerous social, environmental and economic benefits. This has been indicated by solar energy's contribution to achieving sustainable development through meeting energy demands, creating jobs and protecting the environment.

What is the future of solar energy?

Power generation by fossil-fuel resources has peaked, whilst solar energy is predicted to be at the vanguard of energy generation in the near future. Moreover, it is predicted that by 2050, the generation of solar energy will have increased to 48% due to economic and industrial growth [13,14].

Are people well aware of the benefits of solar power?

People are not well aware of the benefits of solar power energy. This creates a barrier in promoting its use. However, there is a need to promote the commercial adoption of solar energy. It is also required to change human habits.

Why is solar energy a good resource for generating electricity?

Therefore, the massive amount of solar energy attainable daily makes it a very attractive resource for generating electricity. Both technologies, applications of concentrated solar power or solar photovoltaics, are always under continuous development to fulfil our energy needs.

Why is solar energy important in research?

Solar power is of major attraction in academic research. This study aims to conduct desk research on understanding consumer awareness of solar energy and its potential in promoting solar power energy in developing countries. Furthermore, it explores the opportunities which are expected to arise in the future and organizes marketing resources (Kotler 2003).

Promoting electricity generation using renewable energy sources is one of the ways to overcome the global warming phenomena in the future. The energy source is sustainable, clean, and all-natural [4]. Nowadays, most countries are applying energy policy to promote electricity from renewable energy sources [5].

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Photovoltaic solar technology can produce clean electricity without emitting any greenhouse gases. It contributes to the development of renewable energy solutions in the French energy mix.

3.1 Photovoltaic systems. The planet has renewable energy resources, including solar energy as it is a source that is abundantly found on the surface. Estrada explains that the abundance is such that the solar energy received during 10 days on Earth is equivalent to the sum of all the reserves of fossil fuels such as oil, gas, and coal.

Government-sponsored solar energy initiatives provide a number of benefits, such as expanding access to solar energy, fostering job creation and economic growth, lowering reliance on conventional energy sources, and boosting energy security. These initiatives might be crucial in encouraging the use of solar power and fostering the development ...

By requiring utilities to source a portion of their energy from renewables, RPS policies drive demand for solar energy, stimulate market growth, and attract investment in new solar projects. This regulatory approach helps to diversify the energy mix and reduce dependence on fossil fuels.

The development of residential solar photovoltaic has not achieved the desired target albeit with numerous incentive policies from Chinese government. How to promote sustainable adoption of residential distributed photovoltaic generation remains an open question. This paper provides theoretical explanations by establishing an evolutionary game model ...

Renewable energy is a potentially huge solution, for which governments are creating policies to encourage its harness and use. The dominance of photovoltaic (PV) ...

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