

Analysis of the Disadvantages of Solar Power Generation

What are the disadvantages of solar energy?

An undoubted disadvantage of solar energy is that this technology is not equally efficient around the world.

Are solar energy systems harmful to the environment?

Solar energy technologies require materials, such as metals and glass, that are energy intensive to make. The environmental issues related to producing these materials could be associated with solar energy systems.

How does solar energy affect the environment?

Using solar energy can have a positive, indirect effect on the environment when solar energy replaces or reduces the use of other energy sources that have larger effects on the environment. However, producing and using solar energy technologies may have some environmental affects.

What are the problems with solar power?

1. Intermittency issues can disrupt the advantages of solar power. One of the most significant issues with solar energy is that the technology can only generate power when the sun shines. If there is an overcast day with a high gloom index or nighttime hours arrive, then the resource receives an interruption of its supply.

Are rare materials a disadvantage of solar power?

Some solar power technologies require rare materials as part of their manufacturing process. This issue is primarily a disadvantage for photovoltaic technology, but it does also apply to the concentrated market. Many of the rare materials are byproducts of other processes instead of the focus of specific mining efforts.

What are the environmental impacts of solar PV and solar thermal systems?

Environmental impacts of solar PV and solar thermal are summarized. Thin film photovoltaics (TFPVs) can be recycled using large metal smelters. Toxic cadmium can be controlled through temperature and concentration. Factors impeding the commercialization of Solar PVs and thermal systems are presented.

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