



Environmental issues in solar energy production enterprises

In the present study, a comprehensive review of the different environmental, operational and maintenance factors affecting the performance of the solar PV modules is performed. The study also identifies the advanced ...

Managing energy-producing companies as well as managing the entire energy sector in the light of legal and environmental requirements requires a new vision, mission, and strategy. The paper analyses the strategies of energy enterprises. It is not enough now to produce energy and deliver it at appropriate, acceptable prices to consumers; it must be ...

End-of-life stages for wind turbines and solar panels present waste management problems requiring effective recycling strategies. Both energy sources can impact wildlife. Sustainable energy future relies on holistic approaches, continuous research, and innovative solutions balancing energy needs with environmental conservation.

Set up costs for renewable sources of energy such as wind, tidal and solar is very expensive. The visual impact can have a negative impact on tourism. The production of energy from renewable energy sources such as wind and solar energy can be affected if the weather conditions are not right. This can lead to reduced profitability.

Explore the ins and outs of the environmental impact of solar energy production in our latest blog post. Discover the benefits, challenges, and future of solar power. ... However, with careful planning and management, these environmental issues can be minimized. For instance, some solar farms are designed to allow wildlife to move freely around ...

China's style of economic development has resulted in rapid economic growth, but at the expense of consuming a significant amount of fossil fuel-based energy and causing serious environmental pollution problems (Bharodia and Chen 2021). As time goes on, the disadvantages of this development model are gradually exposed, and the Chinese government ...

China's energy supply and energy use are closely linked to environmental degradation. The country's heavy reliance on coal, oil, and natural gas, as well as its rapidly growing demand for energy, have contributed to air and water pollution, soil erosion, and other environmental problems. To address these issues, China must transition to cleaner and ...

Worldwide, the installation of photovoltaic power systems has increased exponentially in recent years (Dhar et al., 2020). The negative environmental impacts of solar energy systems include visual ...

ical environment (Guarino et al. 2012). Solar photovoltaic technology provides clean energy and does not cause land, environmental, and ecological problems. Solar photovoltaic technology provides clean renewable



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energy; does not cause land, environmental, and ecological problems; and conforms to the concept of sustainable development.

Significant improvements have taken place in the materials used and the production processes. However, some environmental challenges persist, which must be overcome before solar energy may be used to represent a source of truly clean energy. Most environmental issues with solar power stem from the production process.

Innovation and green are the directions to promote the circular economy and environmental sustainability at the corporate level. This paper examines the impact of environmental regulation (pollution charge) on green technology innovation and the mediating role of corporate environmental responsibility. Our results indicate that: (1) Environmental ...

Solar PV technology is widely promoted as a "clean" zero-emission energy production system. However, the adverse effects of PV solar technology application have not been sufficiently considered and even ignored. ... to guide PV enterprises to develop in a greener and low-carbon fashion technologies, it is also necessary to build information ...

Among the various types of renewable energy, solar photovoltaic has elicited the most attention because of its low pollution, abundant reserve, and endless supply. Solar photovoltaic technology generates both positive and negative effects on the environment. The environmental loss of 0.00666 yuan/kWh from solar photovoltaic technology is lower than ...

3.3. Direct solar energy. The word "direct" solar energy refers to the energy base for those renewable energy source technologies that draw on the Sun's energy directly. Some renewable technologies, such as wind and ocean thermal, use solar energy after it has been absorbed on the earth and converted to the other forms.

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The main goal of this study is to estimate the life cycle environmental impacts of electricity generated by present-day domestic solar PV installations and to compare such systems to their counterparts from a ...

This research intends to identify influential factors in adopting and diffusing solar energy technology (SET) by micro-, small-, and medium-sized enterprises (MSMEs) in two tehsils of Multan district in Pakistan's Punjab province. To this end, the influential factors are identified through studying literature surveys and conducting questionnaires. Following that, ...

In this work, we address and discuss the environmental impacts of solar energy systems, demonstrated by commercially available and emerging solar PV and CSP systems ...



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The environmental issues related to producing these materials could be associated with solar energy systems. A number of organizations and researchers have ...

Promoting energy-intensive enterprises" green innovation is essential for transitioning to a low-carbon economy. This study explores the promoting factors and influencing mechanisms that drive energy-intensive enterprises" green innovation performance from the perspective of environmental regulation and the theory of planned behavior. A questionnaire ...

The sun provides a tremendous resource for generating clean and sustainable electricity without toxic pollution or global warming emissions. The potential environmental impacts associated with solar power--land use and habitat loss, water use, and the use of hazardous materials in manufacturing--can vary greatly depending on the technology, which ...

S. N. 2015, A review of safety, health and environmental (SHE) issues of solar energy system, Renewable and Sustainable Energy Reviews, ... fullerene or solar cell production) can be targeted ...

Innovation in renewable technology 1 has the potential to enhance the efficiency of existing fossil fuels, thus reducing the consumption of energy during the manufacturing process (He and Shen, 2017; Miremadi et al., 2019; Zhang et al., 2023).The most commonly used renewable energy sources are biomass from plants, geothermal energy, hydropower, solar ...

The rapid development of renewable energy enterprises has produced important benefits for contemporary efforts to address serious environmental pollution and depletion of fossil energy resources. However, the environmental pollution that exists in the production and operation of enterprises has been ignored, and so an objective evaluation of this issue is ...

However, producing and using solar energy technologies may have some environmental affects. 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.

Energy and the environment have always been and will continue to be intimately connected. All types of energy negatively impact the environment somehow.

The results revealed that the negative environmental impacts of PV systems could be substantially mitigated using optimized design, development of novel materials, ...

Climate change, air and sea pollution, and social inequality are examples of current challenges for global sustainability strategies. Manufacturing enterprises supplying the globalized demand for products significantly contribute to these problems since they are responsible for several environmental and social issues (e.g., greenhouse gases, waste, and ...



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