

## **Socio-economic impacts of solar energy technologies for sustainable green energy : A review**

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### **ABSTRACT**

Although fossil fuels leave environmentally hazardous gases like carbon dioxide, to date, global energy production is mostly dependent on these sources. Depletion of fossil resource and changes in the price make it a major concern for the sustainable use in future and utilization of energy resources which is environmentally safe and sustainable. Therefore, an increase in the use of natural sustainable energy like solar power observed to be increased recently. Effective use of solar energy depends on the proper knowledge on its use and techniques. This article reviews different solar storage technologies to obtain green sustainable energy generation. We discussed the variation, mechanism, effectiveness, and worth of greenhouse for solar heat storage and concentrated solar power technologies (CSP). The multi-level evaluation method establishes an evaluation index system, adopts the expert scoring method to determine the weight and score of the index, and combines qualitative and quantitative to obtain a comprehensive evaluation value. There is the evaluation of the socio-economic impact of the green power station construction. The detail of socio-economic environmental factors for large-scale operation applications depends on the use and conditions both solar storage and technologies have advantages and disadvantages. Finally, directions for significant waste-to-energy for a safe environment are presented.

### **KEYWORDS**

Phase change material; Renewable energy; Socio-economic; Solar energy; Sustainable

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