OPTIMIZING THE EFFICIENCY OF SOLAR PHOTO VOLTAIC SYSTEM

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ABSTRACT
India is an energy deficient country, where a large fraction of the population still does not have access to modern day energy services such as electricity. This is due to very limited fossil fuel resources and poor economy, which restrains the import of fossil fuels on a large scale. To overcome energy shortage, India needs to develop its indigenous energy resources like hydropower, solar and wind. India lies in an area of one of the highest solar insulation in the world. Accordingly, the status and outlook of solar energy use in India are discussed. It is concluded that the current infrastructure has not been able to advance the status of solar energy in India. Significant efforts are needed to effectively utilize this cheap renewable energy source. Solar power is a term that refers to several alternative sources of energy by which sunlight is harnessed to do useful work for mankind. People know that it is energy since the same alone implies this, but many people think it is expensive and not a preferred method of producing energy. We need to find out how cost effective it is how useful solar power technologies involve the use of photovoltaic cells.


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