

# **Safeguarding Renewable Energy Resources for Future Generations**

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**Abstract:** *This paper explores the Indian energy sector with a focus on sustainable energy, development, and strategic energy planning. It examines the interconnection between the environment, economy, and energy consumption patterns. The study highlights various policies and initiatives aimed at enhancing the adoption of renewable energy sources globally, in India, and specifically in Maharashtra. Additionally, it provides insights into energy modeling and planning to ensure a sustainable future*

**Keywords:** renewable resources, solar power, photovoltaic technology, ecological impact, energy management, climate, green energy

