

**ANALYSIS OF SOLAR RENEWABLE ENERGY DEVELOPMENT IN ENERGY PERSPECTIVE IN
INDONESIA: PRISMA (PREFERRED REPORTING ITEMS FOR
SYSTEMATIC REVIEW AND META-ANALYSIS)**

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ABSTRACT

Indonesia, as the world's largest archipelagic nation, faces significant challenges in meeting its growing energy needs while reducing its dependence on fossil fuels. Solar energy offers great potential as a renewable energy source, but its implementation still faces various obstacles. This study aims to conduct a systematic and comprehensive review of the development of solar renewable energy in Indonesia, identify the key factors influencing its adoption, and analyze related policies and strategies. Using the PRISMA method, this study conducted a systematic review of the literature published in the last 10 years. Searches were carried out on national and international journal databases such as Scopus, Web of Science, IEEE Xplore, and SINTA. Data are extracted and analyzed using narrative synthesis and, where possible, meta-analysis. This review identifies key trends in solar energy research in Indonesia, including technological developments, government policy impacts, implementation challenges, and economic and environmental benefits. The analysis shows a significant increase in the adoption of solar energy, but there is still a gap between potential and realization. Factors such as incentive policies, network infrastructure, and public awareness were found to have a crucial role in solar energy development. Although Indonesia has great potential for solar energy, its implementation still faces various challenges. This research highlights the importance of a holistic approach that considers technical, economic, policy, and social aspects in the development of solar energy. Policy recommendations and future research directions are proposed to optimize the use of solar energy in Indonesia's energy transition.

Keywords: Renewable Energy, Solar Energy, PRISMA, Energy Policy

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