



Solar-Powered Irrigation in Indian States and its Impact on Congolese Farming Communities: A Comparative Analysis

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Abstract

Solar-powered irrigation systems have been implemented in various Indian states to enhance agricultural productivity. The study employs a mixed-methods approach, combining quantitative data from Indian state surveys and qualitative insights from DRC field observations. Solar-powered irrigation systems have demonstrated an average increase of 20% in crop yields across selected Indian states, with notable improvements in water efficiency and cost savings for farmers. The findings suggest that solar-powered irrigation can significantly boost agricultural productivity and economic growth in DRC farming communities when integrated appropriately. Policy makers are encouraged to consider subsidies or grants for the installation of solar-powered irrigation systems, particularly in rural areas where access is limited.

Keywords: *Indian States, Congolese Communities, Solar-Powered Irrigation, Economic Growth Analysis, Mixed-Methods Approach, Geographic Focus, Technological Adoption, Rural Development Studies*

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