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Abstract Details

Title: Grid-independent integrated renewable energy system (ires) for rural electrification: a review

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Abstract: A mammoth transformation in energy systems and policy making models are required to meet the essentials of communities living in rural and remote areas and specifically for those that are subject to energy as well as economic poverty. Novel models must be reflexive to global concerns on climatic changes, parallel with social, economic and environmental agendas of national, state, as well as local governments. The methods also have to be compatible with embedded energy infrastructure. Decentralized solar power plants are a resilient technology which efficiently supports energy transformation to economically and socially deprived communities yet the deployment of this technology is conned by path dependencies including policies, business models and set-ups.

The multi-dimensional perspective can be used to test energy transformation within rural and remote communities in india and other countries, through interviews with regime and top level actors. Identification of various stumbling blocks impeding successful deployment of integrated renewable energy resources including a aloofness between policy makers and implementers, poor coordination within and between actors, and limited institutional focus. To support a successful transition to stand alone -grid renewable energy based regimes for rural and remote communities; actors suggest strong political determination, setting enabling policy frameworks, and implementing a collaborative ecosystem with businesses, financial intermediaries, distribution companies, civic societies and end players.

Keywords: renewable energy, financial intermediaries, collaborative ecosystem, environmental agendas