



Off-Grid Energy Innovations for Healthcare and Educational Sustainability in Senegal

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Abstract

Off-grid energy solutions are crucial for sustainable healthcare and educational facilities in Senegal, where access to electricity is limited. A review of existing literature and case studies focusing on solar photovoltaic (PV) systems and battery storage solutions in Senegalese contexts. Off-grid energy innovations are pivotal for enhancing the sustainability and functionality of healthcare facilities and educational institutions in Senegal. Investment in off-grid solar PV systems should be prioritised to support sustainable development goals, particularly in underserved regions like rural areas of Senegal. The empirical specification follows $Y = \beta_{0+\beta} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Sub-Saharan, renewable energy, solar power, microgrids, decentralized systems, sustainable development, off-grid renewables*

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