

DOI: 10.1016/j.esd.2021.09.008 Corpus ID: 244592954; Numerical investigation to assess the techno-economic feasibility of solar central receiver system for off-grid power in Saint Martin's Island, Bangladesh

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The consultancy identified solar PV installations as the most practical and viable option for the island's transition to cleaner energy. Key milestones include installing solar PV ...

The costs of energy found from the proposed optimized PV-wind-diesel hybrid Energy system for Saint Martin's island and Kuakata are 0.393 and 0.392 USD kW⁻¹ h⁻¹, respectively, the net ...

Saint-martin island is a small isolated island of Bangladesh, with an area of almost 8 km² and almost 7000 people live on this small island. It is the main tourist spot in Bangladesh.

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This paper presents modeling and simulation of an entirely renewable energy based microgrid in MATLAB/Simulink environment for a chosen sample number of population at St. Martin's ...

Saint Martin's Island of Bangladesh, located remotely in the Bay of Bengal, is isolated from the national grid system. Due to its geographical location, solar power is available throughout the year in the island. Consequently, solar photovoltaic (PV) technology is currently being used for generation of electricity while battery energy storage system (BESS) is being ...

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In this paper, energy efficient renewable energy-based Base Transceiver System (BTS) for an isolated location, such as Saint Martin's Island, has been proposed. Saint Martin's is one of the most ...

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