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Grid Connected Rooftop PV Plant Economic Analysis Using Present Time Frame Methodology

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Abstract:
The rooftop PV installation is one of the most significant solutions for producing electrical energy without creating any pollution. PV plants need a significant initial investment, and they also provide energy assistance to grid and users. There is an urgent need to create a straightforward and error-free economic analysis methodology to attract consumers from commercial buildings (such as institutional buildings). The presented study covers a time-value of money based economic analysis for a 100 kWp PV plant at a composite climate in Gwalior, India. The study is performed through real-time data collection and analysis. The results show that there is 127020 kWh electricity generation in the first year, which declined to 1048 considering the uniform and discounted payback benefit-to-cost ratio of 1

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