

Research on the application of solar energy to supply BTS stations in telecommunications

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Abstract: In the context of rapid growth in the telecommunications industry and increasing energy demand, finding solutions using renewable energy such as solar power has become essential. This topic focuses on researching the application of solar energy to supply power for BTS (Base Transceiver Station) stations. The objective is to build and deploy a data collection system on the performance of solar panels at different locations, thereby optimizing the energy usage process. The research methodology includes both theoretical and experimental approaches to ensure suitability and efficiency in application. The expected result is to provide a sustainable solution for the energy problem of BTS stations, contributing to reducing operational costs and enhancing operational capability independent of traditional power sources.

Keywords: Solar energy, BTS station, telecommunications, data collection system, sustainable solution