

Design of a small-capacity solar power system for households

Hoang Manh Quan

Abstract: In the context of climate change and the need for energy conservation, this topic focuses on designing a solar energy system with a capacity suitable for household usage. The main objective is to develop and test the system to optimize electrical efficiency and reduce dependence on traditional energy sources. The research method includes conducting cost-benefit analysis and building an experimental model to evaluate performance. This topic not only contributes to the field of renewable energy engineering but also provides guidance on implementing the system at a small scale within the community.

Keywords: Solar energy, household, system design, renewable energy, energy saving