

Design and manufacture of a backup lighting system using solar energy

Vu Viet Truong

Abstract: In the context of the increasing application of renewable energy, this topic focuses on designing and manufacturing a backup lighting system based on solar energy. The objective of the research is to develop an effective solution to provide stable lighting in emergency situations or areas lacking grid electricity. The research method combines theory with experimentation to ensure feasibility and optimize system performance. The expected result is to create a solar lighting system that can be widely applied, contributing to the sustainable development of the lighting industry.

Keywords: Solar energy, Lighting system, Backup source, Renewable technology, Stable light