IJARSCT
International Journal of Advanced Research in Science, Communication and Technology
International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal
ISSN: 2581-9429
Volume 6, Issue 1, February 2026
Impact Factor: 8.2

Development and Design of Solar Grass Cutter

Pawar Jyoti[1], Bhujade Dnyaneshwar[2], Kotme Jagdish[3], Gaikwad Sandesh[4], Satalkar Tanmay[5]
Lecturer, Mechanical Engineering[1]
Students, Mechanical Engineering[2-5]
Matoshri Institute of Technology, Dhanore

Abstract: *This paper presents the design and development of a solar-powered grass cutter aimed at reducing fuel consumption and environmental pollution. The system uses a photovoltaic panel to convert solar energy into electrical energy, which is stored in a battery and used to operate a DC motor for grass cutting. The proposed model is cost-effective, easy to operate, and environmentally friendly. Experimental results show that the solar grass cutter provides efficient cutting performance under adequate sunlight conditions, making it a sustainable alternative to conventional grass cutting machines.*

Keywords: Solar energy, Solar grass cutter, Renewable energy, DC motor, Photovoltaic panel, Eco-friendly machine

DOI: 10.48175/568