

FABRICATION OF SOLAR OPERATED WOOD CUTTER

SYNOPSIS

This is the new innovative and effective concept mainly used for wood cutting field. It is simple in construction and the working process is very easy. And it is mostly used in the timber field for the cutting of wood, trees, wooden pieces and etc.., The project aims at designing a system which makes the Wood cutter based motor running through solar energy.

INTRODUCTION

Power plays a great role wherever man lives and works. The living standard and prosperity of a nation vary directly with the increase in the use of power. The electricity requirement of the world is increasing at an alarming rate due to industrial growth, increased and extensive use of electrical gadgets. According to world energy report, we get around 80% of our energy from conventional fossil fuels like oil (36%), natural gas (21%) and coal (23%). It is well known that the time is not so far when all these sources will be completely exhausted. So, alternative sources should be used to avoid energy crisis in the nearby future. The best alternative source is solar energy.

A solar panel is a large flat rectangle, typically somewhere between the size of a radiator and the size of a door, made up of many individual solar energy collectors called solar cells covered with a protective sheet of glass. The cells, each of which is about the size of an adult's palm, are usually octagonal and colored bluish black. Just like the cells in a battery, the cells in a solar panel are designed to generate electricity; but where a battery's cells make electricity from chemicals, a solar panel's cells generate power by capturing sunlight instead. They are sometimes called photovoltaic cells because they use sunlight

("photo" comes from the Greek word for light) to make electricity (the word "voltaic" is a reference to electricity pioneer Alessandro Volta).

The system depending on the charging circuit the motor can be controlled. The solar power stores the energy to a battery and then runs the motor.

TECHNOFIST