

ABSTRACT

Sun is the primary source of Energy. The earth receives 16×10^{18} units of energy from the sun annually, which is 20,000 times the requirement of mankind on the Earth. Some of the Solar Energy causes evaporation of water, leading to rains and creation of rivers etc. Some of it is utilized in photosynthesis which is essential for sustenance of life on earth. Man has tried from time immemorial to harness this infinite source of energy. But it has been able to tap only a negligibly small fraction of this energy till today.

In this project the solar energy is used for the generation of electrical energy, by using solar cells. The solar cell receives the solar energy. The solar cells operate on the photovoltaic principle. Light energy is converted into electrical energy. Basically the cells are placed in an open and fixed manner. The main aim of this project is to provide uninterrupted power supply to loads. This means that two battery sources are used here. That is main battery and spare battery. The two battery values are compared the high voltage battery is used for loading and low voltage battery is charged. Here two sources are used they are EB supply and solar power. In day time solar energy is stored in to the battery. DC load is connected at the output side. DC load will be getting power either from EB supply or solar power supply. Therefore uninterrupted power supply is maintained to the DC loads.