

Abstract

Nowadays, solar energy is a very popular form of energy. Solar energy has been deployed in many houses and numerous agricultural places to fulfil their need for electricity. Solar energy is the energy which is obtained from the Sun and converted into electrical energy with the support of photovoltaic cell. An off-grid solar system is one of the systems that can generate electricity from the solar energy. The off-grid solar system represents a form of solar system that can operate independently without the presence of the utility power grid as it contains its own power storage. It can be employed using various methods. First, it is useful in agricultural areas which are far away from the city and cannot be reached by national grid network. Second, it can be used in people's home to reduce their electricity bills. Last, it can be used to generate electricity for any electrical appliance such as LED floodlight, fan, television, and so on.

