

A Review Paper on Solar Energy System

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Abstract - The plant (an arrangement of solar panels) which converts solar energy to light energy from the sun into electrical energy (charge emission) is called a solar power plant process. In solar plant there are many solar panels are connected and in panels there are many cells units which make panels. In which special metal is used which is in the form of lines and these lines are also connected to very thin lines and all these lines are connected to a metal line frame which is mainly quadrilateral in shape. So there is large area to trap light i.e. now there is a suitable area for light to fall on it as the metal arrangement is large to fall on it electrons start's to emit from thin lines to metal frame and current goes into a diode box which is behind the panel and then comes into supply wires.

Keywords: CSP, DER, FIT

INTRODUCTION

When a suitable light of certain frequency (i.e. $E=h\nu$ energy of light depends on its frequency) is fall on a special metal like silicon, electrons get some energy of suitable frequency which is greater than work function[work function is minimum energy required by an electron to emit from metal surface]. So there is no photoelectric emission possible below work function ($w \leq E$) and emit from the conduction band and come out from metal surface. Like that other electron come out and form a big unit of charge flow which is responsible for electric current.

- First, the projects tend to reduce the overall cost of the energy technology as large Scale utilization of a particular technology, in general, tends to reduce the cost of that technology. This has also encouraged the entrepreneurs to invest in solar energy technologies.
- Second, the projects are serving as test platforms for large scale solar energy Utilization technologies.
- Third, these projects are engaging the academic institutions in long-term solar Energy research, development, and pedagogical activities.
- Fourth, these projects have increased the awareness of green technologies.



Fig. 1 Solar Cells

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