

Solar cell and it's applications

Ajanta Palit Dutta

*Department in Electronics & Communication Department, of Bengal Institute of Technology , No-1 Govt. Colony,
Basanti Highway, Kolkata*

INTRODUCTION

Solar Energy is a pollution free non-conventional source of energy. Department of Non-conventional Energy Sources (DNES) is actively involves R & D activity for developing nonconventional know how technology. Nonconventional sources can arrange power in specific area.

Solar Energy utilization Domestic heating and water supply can be met by this. In Israel such system of heating humps and water supply are already in operation In USA commercial solar heaters are available in Florida and California In India, Africa , Australia number of sunshiny days are high and this method has very promising future.

Solar Energy in India

India receives abundant of sunshine with above 1648 -2108 KWh/m² Years with nearly 250-300 days of useful sunshine in a year. The daily Solar energy incidence is between 5 to 7 K Wh/ m² at different parts of the country. This enormous Solar energy power resources may be converted into other form of energy through thermal or photovoltaic conversion routes. The Solar thermal route uses radiation in the form of heat that in turn may be converted to mechanical, electrical or chemical energy. Solar thermal devices like Solar cookers, Solar Water Air heaters, dryers, Wood seasoning Kilns and silicon systems have already developed .

Mechanism

The photo voltaic conversion system convert Solar radiation directly Electricity through Silicon Solar cells, amorphic Solar cells. It is useful for Micro-Irrigation, Radio, Community Lights etc.

Acknowledgement

I am delighted to acknowledge my co- workers of BIT, Kolkata for their kind help & cooperation.

Keywords: DNES –Department of Non-Conventional Energy Source. N. S. P. E. –National Solar Photovoltaic Energy.

CONCLUSION

Hence Solar Energy can be considered as the future Energy Source of India and also of the World. It is a pollution free energy. It will be illuminated all cities and villages of India and also of the World.

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