RENEWABLE ENERGY AND DEVELOPMENT OF ECO-FRIENDLY SYSTEM USING SOLAR PV MODULE 333 W

Chanderkant Jangid[1], Hari Shankar Jat[2], Ravinder Singh Maan[3], Ravi Sharma[4]

[1,2]B.Tech Scholar, [3,4]Asst. Professor

[1,2,3,4]Department of Electrical Engineering, Arya Institute of engineering Technology & Management, Jaipur ,Rajasthan , India.

Abstract: This study Represent the impact of electricity on the sub-station and industry areas the observed temperature profile within the solar wind indicates on the earth the existence of high heating mechanism. The cell cracking presents a serious installation for the long time .They had proved to have good impact on pv devices .they have pce considerably higher than it other counter parts.

The paper an optimization model of the top cell emitter bandage and thickness of multi-junction solar cell (MJCS).these days the solar work is increasing day by day .there is much needed .the solar provide by many companies in the India. In the whole world the china manufactures 60% to 70% PV module.

I. INTRODUCTION

Electrical modeling of the buffer layer for a cu2o/znosolar callusing Silvio atlas .the organ metal proves kit solar cells have shown stupendous development and have reached a power conversion efficiency (PCE)OF 22.1 % however the toxicity of lead in proves kite solar cells is a major challenge toward their incorporation into photovoltaic..

Solar energy – introduction solar energy is the energy obtained by capturing heat and light from the sun .Energy converted into solar energy .active solar energy system techniques include the use of photovoltaic system .[1]

The solar energy system increase the day by day. in the whole world the solar system need in the all whole world .the solar energy system is renewable energy source. Its initial cost is high .but it is durable for the 25 years then the solar panels can be change. Solar panels themselves usually account for about 30% of total costs. [1] It then explained the concepts of globalization and localization in the world . the is required some parts of this work .In the solar instolationpv module inverter as need kw.

Fig 1. Solar Pannels

There is tow uses for the power inverter one is to convert low voltage DC to the 120 volts AC needed for appliances .the other is to change batteries if connected to a utility grid or an AC Generator..[1]

II. STANDARDS AND REQUIREMENTS FOR SOLAR EQUIPMENT

This work is based upon work supported by the us department of energy suns hot. Atria power and many more companies .they provide the all service and installation of pv solar cell. The numerical analysis of solar panel electrical modeling of the buffer layer for a cu2o/znosolar. Abstract the application of zinc oxide (zno) Thin as transparent conductive oxide (TCO) Layer in the thin solar cells (TFSC). The solar nowadays in laboratories and in industries, distribution of solar cells size could be very large , hence ; for the first time is rather difficult to compare photovoltaic parameters. The zno (zinc oxide) is wide band gap semiconductor material and finds broad application as a transparent conductive oxide in electro- optical.

Table 1. Numerical Analysis of Solar

System Size	Average Cost Per Watt	After Tax
8 KW	3.20	18,939
10KW	3.05	22,535
12KW	2.95	26,170
20KW	2.80	41,380

III. ENERGY SOLUTION

Artificial Energy solution in the needed place , to manage energy better we provide complete visibility into any industry, Energy solutions is focused on creating large- scale environment impacts by providing cost effective market-based carbon. [3]

Table 2 . Solar PV Module

Inverter	Betrays
ABDC box	AC box
Solar meter	DC / AC cable
Cable tray	Aluminum structure

Fig 2 Solar PV Module Structure

III. CONCLUSION

The paper an optimization model of the top cell emitter bandage and thickness of multi-junction solar cell (MJCS).these days the solar work is increasing day by day .there is much needed .the solar provide by many companies in the India. In the whole world the china manufactures 60% to 70% PV module.

REFERENCES

[1] Nirit Datta Ashutosh Malik Sovik Sarkar Deepak Punetha "Fan Generation of Light Energy by Utilization of Electrical Energy without Consumption of Electrical Energy through Harness of Wind Energy Generated by Ceiling" 2017 3rd International Conference on Advances in ComputingCommunication & Automation (ICACCA) (Fall) 15-16 Sept. 2017.

[2] Ponnson Kaewtip Naebboon Hoonchareon "A Magnetic Leviation Rooftop Turbine Ventilators: A Case Study For Wind Micro-Generation" JIRSET An ISO 3297:2007 Certified Organization vol. 3 no. 4 April 2014 ISSN 2319-8753.

[3] Allen L. Ray Derekcouse "Cement Plant fan Efficiency Upgrade" IEEE Transactions on Industry Applications vol. 53 no. 2 pp. 1562-1568 November 2016.

[4] Sonia Parate Miss Rahat Parveen Mohammed Yunus Akshay A. Dhande Snehal N Bhagat Gunjan R. Nandeshwar Miss Madhuri P Ramteke "Elecricity Generation by using Rooftop Ventilators" (IJRASET) vol. 6 no. III March 2018 ISSN 2321-9653.

[5] Maneesh Khandelwal Pratik Mundle Darshan Pande Tushar Bhang Madhuri A. Chaudhari Sunil Mutha "Use of Roof Top Ventilators for Electricity Generation" 2017 International Conference On Smart Technologies For Smart Nation (SmartTechCon) 17-19 Aug.2017.

[6] Mobi Mathew Fajo F Nellissery Ashok Anand "Development of Small Scale Power Generation System Using Rooftop Ventilator" 2016 IEEE Students' Conference on Electrical Electronics and Computer Science (SCEECS) 5-6 March 2016.

[7] N. Krishnaveni P. Anbarasu D. Vigneshkumar "a survey on floating solar power system" International Journal of Current Research and Modern Education (IJCRME) no. NCFTCCPS pp. 152-158 2016.

[8] Alok Sahu Neha Yadav K. Sudhakar "Floating photovoltaic power plant" A review Renewable and Sustainable Energy Reviews vol. 66 pp. 815-824 2016.

[9] Satyen K. Deb "Recent developments in high efficiency photovoltaic cells" Renewable Energy vol. 15 no. 1 pp. 467-472 1998.

[10] E. Maria "Resuscitating a dying world the 2010 imperative a global emergency teaching" architecture 2030 2007.