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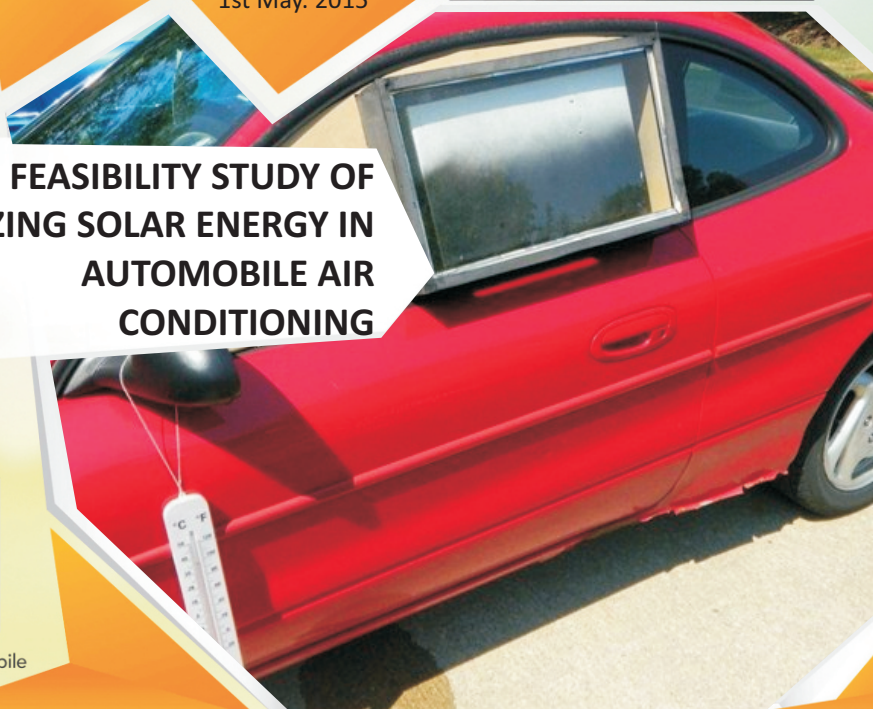
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FEASIBILITY STUDY OF UTILIZING SOLAR ENERGY IN AUTOMOBILE AIR CONDITIONING

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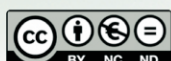


Sonu Yadav

ABSTRACT

Air conditioner is the primary accessory of a passenger car which is used to maintain the vehicle cabin temperature and humidity at comfortable levels for a passenger. But this system consumes a lot of power and negatively affects the fuel efficiency of a car. Depleting natural oil resources, increasing oil prices and environment pollution increases the awareness about the need to use renewable sources. In past years, lot of efforts are being spent towards the application of solar energy to electric and hybrid cars

Article Indexed in



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Introduction

Auto air conditioner consists of compressor, condenser, evaporator and expansion valve. These parts work in a cyclic process which is called vapour compression refrigeration cycle. Compressor is the most power consumable part of the air conditioner. In the present fossil fuel operated cars, compressor runs by directly belt connected with the engine. So, put extra burden on the car engine.

A Good Introduction :-

Depict the significance (importance) of the study - why was this value doing in any case? Give a wide connection. Extremely briefly depict the exploratory configuration and how it achieved the expressed destinations.

Materials

Must add methods and materials in your article.

A Good Materials :-

Methods & Materials used to per research topic.

Result

Polycrystalline panel is able to generate 1.404kWh energy in alto car, if it takes whole day sunshine and car air conditioner needs 0.738 kW power at peak load. Hence, it can be calculated that, using polycrystalline panel, it can generate power which is sufficient to run car air conditioner for nearly 2 hours.

A Good Result :-

Give a setting, for example, by depicting the inquiry that was tended to by mentioning a specific observable fact. Portray aftereffects of control investigations and incorporate perceptions that are not exhibited in a formal figure or table, if proper.

Conclusion

Feasibility of the solar driven auto air conditioner is checked under different working conditions and following conclusions are determined through the appropriate calculations and practical consideration with reasonable assumptions

A Good Conclusion :-

Clarify the majority of your perceptions however much as could be expected, concentrating on systems. Choose if the trial outline satisfactorily tended to the speculation, and whether it was legitimately controlled.

References

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- Ahmed and Tiwari (2009), "Optimization of Tilt Angle for Solar Collector to Receive Maximum Radiation", The Open Renewable Energy Journal, 2, pp19-24.
- Anuphappharadorn,S., et al (2014), "Comparison the economic analysis of the battery between lithium-ion and lead-acid in PV stand-alone application", Energy Procedia 56, 352 – 358
- Bhoje,H. and Gaurang Sharma (2014), "An Analysis of One MW Photovoltaic Solar Power Plant Design", International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering Vol. 3, Issue 1

A Good References :-

There are Places where the Author Sonu Yadav and M. L. Aggarwal Need to Cite a Reference, but Have Not

SUMMARY OF ARTICLE

No.		Very High	High	Average	Low	Very Low
1.	Interest of the topic to the readers		✓			
2.	Originally & Novelty of the ideas	✓				
3.	Importance of the proposed ideas	✓				
4.	Timelines			✓		
5.	Sufficient information to support the assertions made & conclusion drawn		✓			
6.	Quality of writing (Organization, Clarity, Accuracy Grammer)	✓				
7.	References & Citation (Up-to-date, Appropriate Sufficient)		✓			

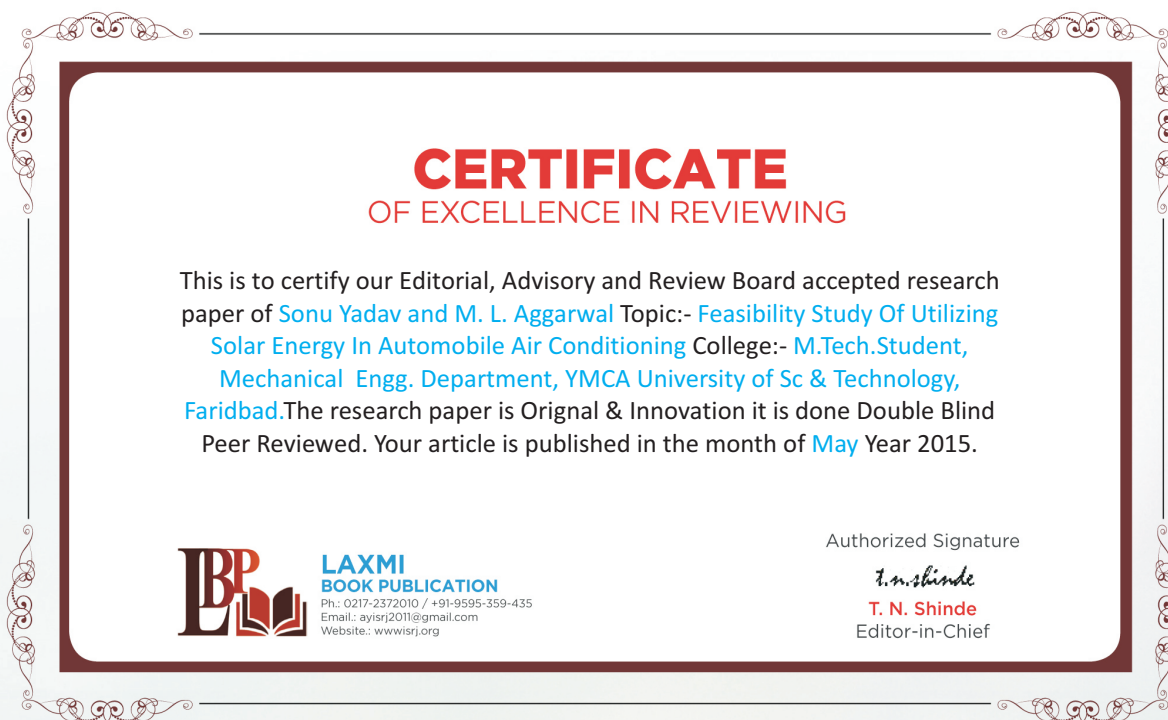
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REVIEWER COMMENTS

- I discover no shortcoming at all with the routines, information examination, or conclusions.
- The work, as with all work advancing from this specific gathering, is generally sound.
- My remarks here are concerned singularly with the association of the composition.
- Thought of these focuses will, I accept, lead to an enhanced report that

Authorized Signature

Dr. Ashok Yakkaldevi
Review Editor

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