

Advance Method of Battery Charging for EV Vehicle by using Arduino

Shruti Suresh Gangurde, Shital Somnath Jondhale, Samiksha Sathish Dive, Dhanshree Gayakhe

Department of Electrical Engineering
Guru Gobind Singh Polytechnic, Nashik, Maharashtra, India

Abstract: Electric Vehicles (EV) has recently been gaining increased worldwide interest since they result in far less climate pollution than their gas-powered counterparts. One of the main advantage of electrical vehicle is that it does not emit harmful gases compared to conventional vehicle. Electrical vehicle are the future of transport. But still EV facing some technological and economical barriers but they have some several disadvantages such as a requiring charging station long charging time. The main challenges in adoption of EV are insufficient charging stations, long charging time, high initial cost and limited range. This paper solving problem charging time of Evs. We have designed one system that will help to solving charging problem of EV vehicle.

Keywords: Electric Vehicle, Charging Station, Charging Time

REFERENCES

- [1]. Xiao guan Yang, Development trend and Prospect of Electric vehicle technology, automobile technology, Vol.6,10-13,2007.
- [2]. Fengchun Sun, Current situation and trend of development of electric vehicle, Science Chinese people, Vol.8,44-47,2006.
- [3]. Ciwei Gao, Zhang Liang, Overview of the impact of Electric vehicle charging on the grid, grid technology, Vol.2,127-131,2011.
- [4]. Electric cars in India: Present, Problems and future-The Hans India, www.thehansindia.com , Sept. 13 2017
- [5]. L. Kutt, E. Saarijarvi, M. Lehtonen, H. Molder, and J. Niitsoo, "A review of the harmonic And unbalance effects in electrical distribution networks due to EV charging," in 12th International Conference on Environment and Electrical Engineering, IEEEIC 2013, Wroclaw, pp. 556–561, 2013. Doi: 10.1109/IEEEIC.2013.6549577.