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 1-378, ADB Road, Surampalem – 533 437, Near Peddapuram, Kakinada District., A.P.
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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Date: 04-01-2025

CIRCULAR

It is to inform to all the students of B.Tech II, III & IV Year that the Student Chapter Institution of Engineers (India) Department of Electrical & Electronics Engineering is Conducting "Importance of EV Charging stations" on 06-01-2025. In this regard All the interested students participate actively.

Faculty coordinator: Mr.S.Nani Babu, Asst Professor

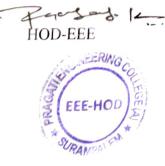
Student Coordinators: M.Devi Iswarya Ambika-24A35A0201 K.Anjani-23A31A0220 N. Sai Teja Vignesh-23A31A0245

Venue: MS-12(Mechanical Block)

S. Nan: Bal IED) Incharge

Copy to:

- 1) Circulate among students and staff
- 2) Department Notice Board
- 3) Department File
- 4) Principal for Information



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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Date:07-01-2025

REPORT ON Importance of EV Charging stations

With the rising demand for electric vehicles (EVs) worldwide, the establishment of a robust charging infrastructure has become crucial. In the case of India, a developing country with growing EV market, setting up electric vehicle charging stations is of paramount importance. This article explores the reasons why India needs a well-developed charging infrastructure to support the widespread adoption of electric vehicles. discussing the environment of electric vehicles associated with the environment stations.

1. Addressing Range Anxiety

Range anxiety, the fear of running out of battery power during a journey, is a significant concern for potential EV buyers. By setting up charging stations across have confidence in the availability of charging infrastructure, alleviating range anxiety and encouraging the adoption of electric vehicles. Easy access to charging stations allows EV owners to plan longer trips and embrace electric mobility without worrying about being stranded.

2. Promoting Clean and Sustainable Transportation

With its substantial carbon footprint from transportation, India can greatly benefit from transitioning to electric vehicles. EVs produce zero tailpipe emissions, reducing air pollution and improving urban air quality. By deploying a widespread network of charging stations. India can accelerate the shift toward clean and sustainable transportation, mitigating the adverse effects of climate change and reducing reliance on fossil fuels.

3. Creating Job Opportunities

The establishment of electric vehicle charging infrastructure in India opens up new job opportunities in various sectors. The installation, maintenance, and operation of charging stations require skilled labour, creating employment opportunities for technicians, electricians, and service providers. This can contribute to the growth of the renewable end and electric mobility sectors, fostering economic development a government's Make in India initiative.

4. Supporting Grid Stability and Energy Management

Integrating electric vehicles into the power grid can offer unique benefits, such as load balancing and energy management. Smart charging systems can optimize charged based on grid demand and renewable energy availability. By strategically demand a stations and utilizing vehicle-to-grid (V2G) technology, electric vehicles can act as grid



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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

storage units, storing excess energy and supplying it back to the grid during peak demand periods. This can help stabilize the electricity grid, promote renewable encode untegrate and reduce the need for additional power generation capacity.

5. Fostering Technological Advancements

Investing in EV charging infrastructure promotes research and development in the field of electric mobility. It encourages innovation in battery technology, charging technologies, and energy management systems. The development of faster charging station technologies, and advanced energy storage solutions can signific convenience and efficiency of electric vehicle charging. Moreover, the growth of electric charging networks can drive advancements in software solutions, connectivity, and data analytics, creating a more intelligent and interconnected charging ecosystem

In this need of the hour, Local Chapter IE (India) of EEE Department took a step to make

II nd EEE students familiar with the introduction to **Importance of EV Charging stations** through this lecture.

59 Students were participated curiously during the event. Participations will be made at MS-12.The picture of the event and glimpses of slides presented were mentioned in the report stated.

Date & Time of Event

: 06.01.2025 @ 11:00 AM

Venue

: MS-12(Mechanical Block)

S.Nan: Bal





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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Importance of EV Charging stations

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Name of The Programme:

Date: 6/01/2025

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