PRAGATI ENGINEERING COLLEGE

(Autonomous)

1-378,ADB Road, Surampalem – 533 437, Near Peddapuram, Kakinada District., A.P.
(Approved by AICTE, Permanently Affiliated to JNTUK Kakinada & Accredited by NBA)
(Recognized by UGC Under Sections 2(f) and 12 (b) of UGC act, 1956)
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Learning is Supreme Deity

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. Nani Babu
IEI) Incharge

HOD-EEE

PRAGATI ENGINEERING COLLEGE (A) EEE-HOD SURAMPALEM

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 a 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 environmental benefits, economic opportunities, and technological advancements associated with EV charging 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 the country, drivers can 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 energy and electric mobility sectors, fostering economic development and supporting the 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 charging schedules based on grid demand and renewable energy availability. By strategically locating charging stations and utilizing vehicle-to-grid (V2G) technology, electric vehicles can act as grid

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 [illegible] 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 stations technologies, and advanced energy storage solutions can signific convenience and efficiency of electric vehicle charging. Moreover, the growth of 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. Nani Babu

PRAGATI ENGINEERING COLLEGE (A) EEE-HOD SURAMPALEM

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Name of The Programme: Importance of EV Charging Stations

Date: 6/01/2025

S.NO	ROLL NUMBER	NAME OF THE STUDENT	SIGNATURE
1	24A35A0202	Sk. Shamshad	Shamshad
2.	24A35A0203	V. Shalini	V. Shalini
3.	23A31A0201	A. Navya Satya Sri	A. Navya.
4.	23A31A0205	K. Malliswari	K. Malliswari
5.	23A31A0212	P. Sravani	P. Sravani
6.	23A31A0209	M. Pooja Kowsika	M. Poojak
7.	23A31A0207	K. Sumathi	K. Sumathi
8.	23A31A0216	P. Chandini	P. Chandini
9.	23A31A0203	G. Anusha.	G. Anusha
10.	23A31A0206	K. Aswini	K. Aswini
11.	23A31A0224	B. Sridevya	B. Sridevya
12.	23A31A0204	G. Vasishtha	G. Vasishtha
13.	23A31A0214	P. Soumya	P. Soumya
14.	23A31A0222	Vyshnavika. B	Vyshnavika
15.	23A31A0213	P.D.S. Ramya	P.D.S. Ramya
16	23A31A0202	B. Chaitanya Jyothika	B. Chaitanya Jyothika

17	23A31A0215	P.v.Indu Priya Darshini	P.v. Indu Priya Darshini
18.	23A31A0211	M.B.Srividya	M.
19.	23A31A0208	K. Lalitha Sri	K.
20.	24A35A0201	M.D.Z.Ambika	M. Ambika
21.	23A31A0218	R.chandana Sabitthi	R.ch. Sabitthi
22.	23A31A0229	E.Himavarsha	E.
23.	23A31A0238	M. Ram	
24.	23A31A0256	V. vikas vardhan	Vik
25.	23A31A0260	A. satya ganesh	A.S.
26	23A31A0239	M. Sudhkar	M. Sudhkar
27	23A31A0240	M. Vamsi	M. Vamsi
28	23A31A0241	M. Murali krishna	M.
29	23A31A0250	P. sekhar	P. sekhar
30	23A31A0253	P. santosh	P. santosh
31.	23A31A0232	K. Venkatesh	
32.	23A31A0226	B. Ajay	B
33.	23A31A0251	Y. ABHISHEK	Y.
34	24A35A0210	K.S.S.Narendra.	K.S.S.
35	23A31A0255	S. Teja	S. Teja
36	23A31A0231	J. AJay	
37	24A35A0211	M.Dorababy	M. Dorababu.
38	24A35A0205	D. Sai Venkat	D. Sai

39.	24A35A0204	B Pramodh	Pramodh
40.	23A31A0242	M. Sivajibabu	M. Sivajibabu
41.	23A31A0225	TS. praveen	TS
42.	24A35A0207	E. dhanmuk	E.
43.	23A31A0244	M. Karthik	
44.	23A31A0249	Pfujay	Pfujay
45	23A31A0248	P. Chandra sekhar	P
46	23A31A0258	Y. Sai vignesh	Y. vignesh
47	23A31A0230	G. Balakrishna	G.
48	23A31A0234	K. Jagatha	K. Jagatha
49.	23A31A0228	D. Phanikumar	D. Phani
50.	24A35A0212	N. Sai Srinivas	N.
51.	23A31A0254	P. surya manikanta	Surya
52	23A31A0227	B. Hemasundar	B. Hemasundar
53	23A31A0247	O. Satya mani kanta	mani
54	23A31A0259	Y. H. H. Satyanarayana	Y. H. H. S
55.	24A35A0209	K. GNANASAIRAM	K. GSR.
56.	24A35A0206	D. Dharma Teja	
57	24A35A0208	E. S. S. Kiran	E. S. S. Kiran
58	23A31A0233	Ketan Jain	Ketan Jain
59.	23A31A0252	P. Dileep Varma	P. Dileep Varma