

"ई-मोबिलिटी" पर राष्ट्रीय सम्मेलन
23 और 24 जनवरी 2025
National Conference on "E-Mobility"

23rd and 24th January 2025



Organized By



ऊर्जा दक्षता एवं नवीकरणीय ऊर्जा प्रभाग (ईआरईडी)
Energy Efficiency and Renewable Energy Division (ERED)
केन्द्रीय विद्युत अनुसंधान संस्थान (सीपीआरआई)
CENTRAL POWER RESEARCH INSTITUTE (CPRI)
(भारत सरकार की सोसाइटी) / (A Govt. of India Society)
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About CPRI

Central Power Research Institute (CPRI), an Autonomous Society (set up in 1960) under Ministry of Power, Government of India, functions as a National Organization for applied research in power sector and also serves as an Independent Laboratory for testing and certification of power equipment. CPRI provides consultancy services on various facets of the power and energy sectors covering generation, transmission, distribution and end-use. CPRI has vast expertise in the area of Energy auditing, Simulation, Diagnostics and System Analysis. Over the years, CPRI officers have gained lot of practical knowledge concerning to testing and operational problems of power plant and industry. CPRI is a leading provider of Training and Continuing Education to Utilities, PSUs, across the country for the past 50 years.

Energy Efficiency and Renewable Energy Division (ERED) of CPRI has been actively involved in Energy audits of thermal, hydro, combined cycle & renewable energy power plants, process industries and buildings over two decades. The Electric Vehicle Supply Equipment (EVSE) Test and Research facility has been recently established in the year 2022 at Energy Efficiency and Renewable Energy Division of Central Power Research Institute, Bengaluru for carrying out testing and certification and research activities up to a capacity of 50kW (AC and DC). The Bureau of Energy Efficiency (BEE) has sponsored this project for creating the Electric Vehicle Supply Equipment (EVSE) Test Facility at CPRI-Bengaluru. The EVSE (also referred as EV Charger) test facility is capable of testing all types of EV charging systems that are currently available in the world viz. CCS, CHAdeMO, GBT and Bharat EV chargers. The typical starting power capacity that can be tested using our facility ranges from 3.3 kW to 22kW for AC EVSE and 7.5kW to 50 kW for DC EVSE. The facility can be utilized to perform testing and research activities as per the following National (BIS) standards & International standards:-

- IS 17017 (Part-1), IS 17017 (Part-21-Sec 2), IS 17017 (Part-23): 2018, IS 17017-Part 24
- IEC 61851-1, IEC 61851-21-2, IEC 61851-23, IEC 61851-24
- ISO 15118 series of standards (Part 1 to 8), DIN 70121
- Bharat Chargers: AC-001 and DC-001
- CHAdeMO Version 2.0 or previous version of the standard, GB/T standards
- Power and Energy Conversion Efficiency of EV Chargers

About the National Conference

The National Conference on E-Mobility will bring together experts from academia, industry, and government to discuss the latest developments in electric mobility.



EVSE Test and Research Facility

- ❖ **Uncover the Latest Trends:** Gain insights into the most recent advancements in E-Mobility technology, infrastructure, and policy.
- ❖ **Network with Key Players:** Connect and collaborate with experts, researchers, industry leaders, and policymakers.
- ❖ **Explore Cutting-Edge Solutions:** Witness ground-breaking research, innovative product demonstrations, and insightful presentations
- ❖ **Engage in Industry Discussions:** Participate in interactive sessions, panel discussions, and workshops

Paper Invitation

Interested professionals are invited to submit their experiences and ideas in the form of technical papers. The selected papers will be published in the conference proceedings. Best papers will be published in the CPRI journal indexed in Google Scholar. **Best Paper Certificate will be awarded to top three papers in each track.**

Conference Tracks- Papers are invited on the topics covered below:-

- E-Vehicle & Hydrogen Technologies
- Next-Gen Charging Infrastructure, Fast, Ultra-fast, and Super-fast charging
- Battery Storage Technologies & Management
- Grid Integration, Impact of Power Quality, EMI EMC, & Smart Grids
- Policy & Regulatory Frameworks for EV Adoption

Last date for submission of technical paper : 1st December 2024

Confirmation of acceptance of paper : 10th December 2024

Last date for registration : 30th December 2024

Methodology/Plan of the programme

The conference includes lectures by invited speakers with vast experience in E-mobility technologies. Apart from the paper presentation, lab visits and testing demonstrations as per IEC/IS Standards will also be arranged.

Who can participate?

- Manufacturers and equipment suppliers of EV Chargers, battery Swapping stations, and Electric vehicles.
- Industry personnel, Operation & Maintenance Engineers, Managers & Executives of power plants, Waterworks, Industries, Underground Mines, Govt. and Private Organizations / Buildings, Hotels, Hospitals, Airports, Port trusts, Research organizations, etc.
- Academia, Researchers, Engineers of Electrical / Electronics / Mechanical background working in relevant field
- Policy and regulatory framework authorities and nodal agencies for e-mobility and its related field.

Programme & Registration details

Venue	SJ Auditorium, CPRI, Bangalore
Date & Timing	23 rd and 24 th January 2025
Registration fee per participant (for 2 days)	National: Rs. 12,000 + 18 % GST Foreign : Rs. 40,000 + 18% GST (or Equivalent USD)

Registration fee includes the conference kit, conference proceedings, lunch, and refreshments.

The concessional rates offered to Utility/Electricity Boards/Educational Institutions for the conference (2 days) are given below:

Sl. No.	Institutions	Discounted Fee Per Delegate
1	Faculty Members of Educational Institutions	Rs. 8400/- + 18 % GST
2	Students of Educational Institutions	Rs. 6000/- + 18 % GST
3	Group Discount for an Institution /Organisation/ Private Sector for nomination of a) Minimum 3 participants b) Minimum 4 or more participants	a) Rs. 10800/- + 18 % GST b) Rs. 9600/- + 18 % GST
4	State Government/Central Government/ Public Sector /Power Sector Utilities	Rs. 8400/- + 18 % GST

Interested participants are requested to register on or before **30th December 2024** by paying the registration fee through online via. CPRI website.

Payment Terms

1. **100% payment is to be made in full and update us to convey the confirmation.**
2. **Indicate whether TDS is deducted for training charges, If TDS is deducted, the percentage and amount of TDS deducted and submission of TDS certificate shall be provided.**

Mode of Payment:

1. Please make the payment through the link. <https://payment.cpri.res.in/pmt/index.php> and update us. Forward the details to jeykishan@cpri.in on or before 30th December 2024.
2. Please contact our accounts department in case of any clarification on payment. (080-22072262)

CPRI GST No. 29AAAAC0268P1ZF

Accommodation & Local Transport

The program is non-residential. Delegates need to make their own arrangements for accommodation and local transport. CPRI Guest House requirement is limited. Accommodation at CPRI Guest House may be provided based on availability on chargeable basis. You may contact us well in advance to book the rooms for the conference.

Location

CPRI is approximately at a distance of 30 km from the Kempegowda International Airport Bengaluru and 8 km from the City Railway Station and is located on Prof. Sir C. V. Raman Road, connecting Tata Institute (IISc) & Mekhri Circle.

Address for correspondence

All correspondence related to this programme may please be addressed to:

K. Jeykishan Kumar Engineering Officer	ERED, Central Power Research Institute, P.B. No. 8066, Sadashivanagar P.O., Prof. Sir C.V. Raman Road, Bengaluru 560 080. Tele: 080-22072036 Mobile no.: +91 9953795473 Email: jeykishan@cpri.in
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Sponsorship Opportunities:

Interested organizations may support the event by sponsoring it. The name and logo of the sponsor will be displayed in the venue of the conference and in the proceedings. Sponsors will have opportunity to put their own stall during the conference at the venue.

Category/Type	Amount (in Rs.)	Benefit / No. of delegates without a registration fee
Platinum Sponsor	5,00,000/-	10
Gold Sponsor	2,50,000/-	5
Silver Sponsor	1,00,000/-	2

PATRON
Shri. B.A. SAWALE
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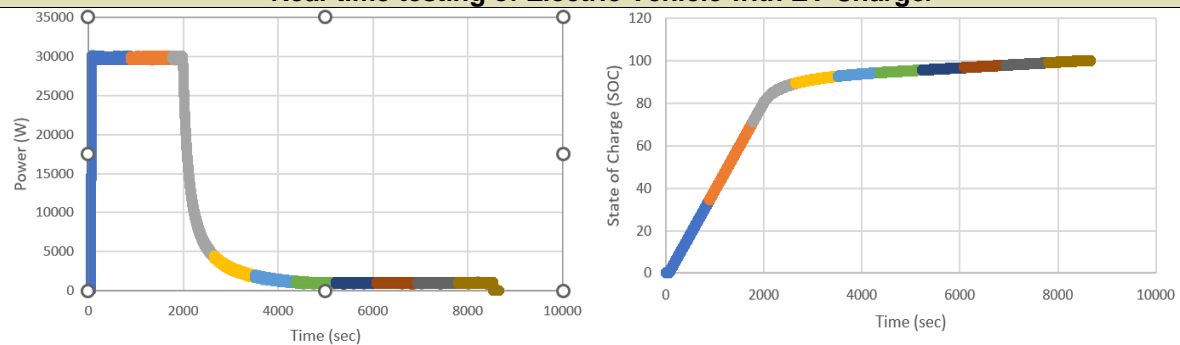
TECHNICAL COMMITTEE

Shri. N. Rajkumar, Joint Director, HoD	Shri. K. Jeykishan Kumar, Engineering Officer
Dr Kaliappan, Joint Director	Dr. Tulika Bhattacharjee, Engineering Officer
Shri. Amit Kumar Sharma, Engineering Officer	Shri. S. Prashob, Engineering Officer
Shri. Akshay Santosh Vidhate, Engineering Officer	Shri. R. Raghu, Engineering Assistant

Research and Testing of EV Chargers



Real-time testing of Electric Vehicle with EV Charger



Charging Profile of EV Charger during charging the Li-battery

Guide Lines for Paper Submission

Manuscripts submitted for publication should meet the general format and style requirements as mentioned below:-

Abstract:

Authors are requested to forward summary of the paper not exceeding 500 words along with the bio data of the main author and the full manuscript by 1st December 2024.

Paper Length:

The paper shall have 3 to 8 single-spaced single pages of A4 size with text on one side of the paper only, including references, tables, figures, and equations. Papers will be selected based on the abstract and paper submitted for this purpose. Only high quality non-published papers will be used for oral presentation and remaining will be considered for poster presentations.

Language:

Papers must be submitted in standard English with **Arial Font**.

Contents:

All pages must contain original text, typed, single-spaced, and in single-column format. Articles may not endorse any proprietary products or services or commercial organizations. Materials must be identified by generic names or specifications than trade names. If a trade name must be used, it may be cited not more than once in the text.

Format:

Title	:	14 point Bold CAPITALS
Author's Name	:	12 point Bold
Affiliation & Address	:	9 point Italics
Headings	:	10 point Bold Capital
Sub-Headings	:	10 point Bold
Text	:	10 point Normal
Footer	:	9 point Italics (footer should not exceed page margins)

Tables, Figures, Equations:

Tables plus figures should not exceed a total of six. All tables, figures and references must necessarily be labelled (e.g. Figure 1, Table 2, Equation (3) etc.) and must be referred to in the text.

Paper Submission Format:

As these papers are printed in the soft form and for facilitating the page setting to the required size, it is requested that the paper is submitted in MS word format only. Please do not send the papers in any other format.

Graphics:

All graphic images must necessarily be included / embedded in the document itself. No separate image or graphic shall be accepted. In case an image is available for inclusion, such image must be scanned and inserted into the document at its appropriate place.