

2-DAY CONFERENCE ON
“ELECTRICAL DESIGN, ENGINEERING,
INSTALLATION & POWER MANAGEMENT
IN INDUSTRIES”

AT FEDERATION OF GUJARAT INDUSTRIES (FGI),
GOTRI - SEVASI ROAD, GOTRI, VADODARA, GUJARAT.
30 & 31 (FRIDAY & SATURDAY) OCTOBER 2026



	Jointly Organized By: <i>THE SOCIETY OF POWER ENGINEERS (I)</i> <i>VADODARA CHAPTER &</i> <i>FEDERATION OF GUJARAT INDUSTRIES</i> <i>VADODARA</i>	
	Knowledge Partner Electrical Research & Development Association, Vadodara	

: CORRESPONDENCE DETAILS:

The Society of Power Engineers (India) Vadodara Chapter

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: OUR BANKER:

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Account Name:	The Society of Power Engineers (India)
Bank Name:	Bank of India, Alkapuri Branch, Vadodara – 390 007
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Introduction and Announcement:

The Society of Power Engineers (India) is an apex body functioning under the aegis of Central Board of Irrigation & Power (CBIP), New Delhi, a National Organization engaged in providing an opportunity to the Students, Academicians, Practicing Engineers and Individuals to update knowledge in Electrical and allied Engineering as well as supporting activities of betterment in the Power Sector and Industries. The Head Quarter of SPE (I) is in New Delhi with Chapters all over the country. The Vadodara Chapter of SPE(I) is the most prominent one with a total enrolled membership of about 2460, which includes Student Members, Life Members, Fellow Members and Institutional Members. These members are from Power Utilities, Electrical Equipment Manufacturers, Multi-National Companies / Industries, Public Sector Enterprises, Academicians (Colleges and Universities) as well as Consultants from Civil, Structural, Electrical and other branches of Engineering. The Chapter regularly organizes monthly Lecture Sessions, Seminars, Symposiums, Conferences and Training Programs for the benefit of all the Members as well as for Industries and Academic Institutions.

The main activities of the Chapter is to organize Seminar, Workshops, Conferences and Technical Lectures, in Vadodara. Also conduct technical programs for the benefits of the students like Drawing Competitions, Debates, Exhibitions, etc. The center is also concerned with the Society of Power Engineers Vadodara Chapter to organize joint programs.

The SPE (India) Vadodara Chapter jointly with Federation of Gujarat Industries, Vadodara and Knowledge Partner Electrical Research & Development Association, Vadodara are going to organize a “2-Day Non-residential Conference on “ELECTRICAL DESIGN, ENGINEERING, and INSTALLATION & POWER MANAGEMENT IN INDUSTRIES” on 30-31 October 2026 at FGI Auditorium, Gotri-Sevasi Road, Gotri, Vadodara.

The intention of this Conference is to upgrade the knowledge of the participants regarding the Industrial Electrification, Application of Automation, Use of SCADA, Power System Study, R&M of various Equipment in Industry, etc. The aim of the Conference is to share the experience of experts from various Industries and Distribution Utilities with the participants. The SPE (I) Vadodara Chapter therefore, deemed it fit to organize a Conference on this topic.

The Speakers in this Conference are likely to be renowned Practicing Engineers from Power Industries, Utilities, Equipment Manufacturer, Academy, Private Sector, EPC, Other Companies (Civil, Mechanical, Electrical, Computer and Instrumentation) & Consultants, etc. About 200 delegates are likely to participate in the conference from different parts of the country. They may include MNCs, Power Generating Companies, Power Utilities, Captive Power Plant Holders, EPC Contractors, Consultants, Small Scale Industries, etc. involved in Manufacturing Activities, Industrial Equipment Manufacturers, Consultants, Academician and Individuals. We are sure that the contents of the conference shall be beneficial to the participants.

A. Who should attend?

- Engineers from State Power Distribution Utility.
- Private Industries involved in manufacturing activities.
- Turnkey Electrical Licensed Contractors.
- Industrial Equipment Supplier - OEM
- Panel manufacturers
- MNCS like, ABB, Seimens, Schnider, L&T, Eaton.
- Design & Engineering Consultants
- Engineers working in major Industries responsible for manufacturing activities.
- Students and faculty members from Academy
- Personnel working in Automation / Instrumentation Industries.
- Industrial Instrument Manufacturers and users.
- Medium Voltage & Low Voltage Switch Gear and Transformer Manufacturers
- Protection systems designers
- Maintenance Contractors

B. Topics to be covered:

(I) Industrial Power System Planning, Design and Electrical Infrastructure

- ❖ Load assessment, Load sharing and sourcing of Power, Project management, Bill of material.
- ❖ Electrical network architecture -Design of EHV & HV Substation, Utility Centers & MRSS, PCC, MCC, LCP
- ❖ Selection of Motors & drives

- ❖ Transformers for specific applications like Distribution, Generation, Lighting, ICT, etc.
- ❖ Industrial Lighting Design / Illumination
- ❖ Single Line Diagram of Power system of Industries.
- ❖ Cable Schedule and Cable Routing
- ❖ Protection Single Line Diagram
- ❖ Earthing system of Entire plant/ Industry

(II) Protection Engineering and Relay Modernization

- ❖ Relay coordination
- ❖ Unit protection schemes, transformer and motor protection, protection setting review, fault discrimination
- ❖ Challenges in relay retrofitting and migration from conventional to numerical relays.
- ❖ Intelligent Electronic Devices (IEDs), Digital Fault Recorders (DFR), Event Analysis, Disturbance Records

(III) Power System Studies using Simulation Tools and Intelligent Load Management

- ❖ Load Shedding Strategies, Automatic Source Transfer, Priority-Based Load Restoration, & Intelligent Load Management Systems for Critical Industrial Processes, Latest Trends in Automation and SCADA
- ❖ Short Circuit Analysis, Transient Analysis & Industrial System Simulation, and Application of Modern Software using ETAP, EMTP PSCAD, and similar tools.
- ❖ Power factor improvement strategies: VFD Drive, APFC installation, Synchronous machines installations etc.
- ❖ Power Electronics, DCS and PLC

(IV) Industrial Electrical Safety, Arc Flash, Earthing and Grounding

- ❖ Practical Case studies on Electrical Accidents
- ❖ Condition monitoring of Earth Pits, ELCB
- ❖ Electrical safety compliance, hazardous-area Classification, Flameproof electrical systems.
- ❖ Fault risk mitigation – PPEs, LOTO, SOPs, Work Permit system, Risk assessment practices, Emergency response planning, Mock drills, Table talks, Induction Training, Refresher training etc.

(V) Reliability, Condition Monitoring and Maintenance Strategy

- ❖ Condition Monitoring of Equipment & Cables, Preventive & Predictive Maintenance, Transformer & Switchgear Health Assessment.
- ❖ Renovation & Modernization Challenges, and Lifecycle Management of Critical Electrical Assets.

(VI) Energy Efficiency, Renewables and Emergency Power Systems

- ❖ Energy Accounting, Energy Audits, Power Optimization.
- ❖ Solar and Wind Integration, Battery Energy Storage Systems (BESS), DG & UPS Systems, Peak Demand Control, & Emergency Power Supply Strategies.
- ❖ Open Access and Energy Management
- ❖ Captive Power Plants & Combine Cycle Power System.

(VII) Construction

- ❖ Switchyard 33 kV & above
- ❖ MRSS 11kV/33kV
- ❖ Ducting and Racking
- ❖ Installation & Testing of Electrical Equipment & Machines including Motors
- ❖ Inspection of equipment at OEM works & at site

Any other topics related to the subject of conference if any, shall also be acceptable

The technical papers are also invited from the authors. The last date of receipt of full length paper is 5th October 2026. The paper shall be submitted as per attached Format only. The presentation can be prepared in ppt format. All authors will be informed regarding acceptance or otherwise through mail. Brief Biodata of the Author/s shall be appended at the end of the paper along with color photograph.

However, any person / delegate / organization would like to share their experience / case study in the Conference he/she may be accommodated on 2nd day last session, as per availability of time.

C. Date and Venue

The Conference is scheduled on **30-31 October 2026 (Fri-Sat)** at Federation of Gujarat Industries (FGI), Gotri-Sevasi Road, Gotri, Vadodara. The venue is about 9 kM from Vadodara Railway Station and about 15kM from Vadodara Airport.

D. Sponsorship:

The Conference provides an effective opportunity for companies to promote their products / services to a focused audience, besides networking with utility engineers during tea /coffee and lunch interval. Sponsors are assured of full visibility with printing of their names on banners and other publicity material related to Conference and will have the privilege of distribution of their products /pamphlets /catalogues during the Conference. Sponsors will also have the privilege of sending delegates who will be exempted from payment of registration fee as indicated here under:

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F. Tentative Program:

Day – I, 30 October 2026 (Friday)	Day - II, 31 October 2026 (Saturday)
08:00 to 09:00 Hrs. Hi-Tea & Registration	08:00 to 09:00 Hrs. Hi-Tea
09:00 to 10:30 Hrs. Inauguration	09:00 to 10:30 Hrs. Technical Session IV
10:30 to 10:45 Hrs. Networking Tea Break	10:30 to 10:45 Hrs. Networking Tea Break
10:45 to 13:00 Hrs. Technical Session I	10:45 to 13:00 Hrs. Technical Session V
13:00 to 14:00 Hrs. Networking Lunch Break	13:00 to 14:00 Hrs. Networking Lunch Break
14:00 to 15:30 Hrs. Technical Session II	14:00 to 16:00 Hrs. Technical Session VI
15:30 to 15:45 Hrs. Networking Tea Break	16:00 to 16:15 Hrs. Networking Tea break
15:45 to 17:30 Hrs. Technical Session III	16:15 to 17:00 Hrs. Technical Session VII & Concluding

F. Advertisement:

Organization can also give only advertisement in the **PROCEEDINGS** being published. The charges for Color Full Page advertisement in the proceedings is Rs, 10,000 + GST @ 18%.

G. Registration

Prospective participants desirous to attend the Conference may register themselves either by email or sending the duly filled in registration form by down-loading from the website of Society of Power Engineers, Vadodara. The filled in form may be sent to the **Society of Power Engineers (I), 414-415, B –Wing, Monalisa Business Centre, Near Samanvay Saptarshi Complex, Manjalpur, Vadodara 390 011**. The registration fee mentioned below may be paid in advance latest by **24th October 2026**.

Category of Delegate	Amount & Description
Utility & Industry	Rs. 5,000/- + GST @ 18% per delegate
Academy (Students / Faculty)	Rs. 1,000/- + GST @ 18% per Student or Faculty (Individual).
SPE(I) / IE(I) / CBIP / FGI Member	Rs. 1,000/- + GST @ 18% per member registering in individual capacity

There will be Presentations of Technical Papers & case studies spread over in 7 Technical Sessions in the Conference including interactions between Speakers and Participants.

H. Payment and Correspondence:

The modes of payment are as under:

1. By ONLINE or RTGS or Sending a crossed cheque drawn in favor of “THE SOCIETY OF POWER ENGINEERS” to our office address mentioned below or Transferring the amount via net banking to our bank account as per bank details mentioned below, or
2. By directly depositing the cheque drawn in favor of “THE SOCIETY OF POWER ENGINEERS” in any branch of Bank of India with an intimation to SPE (I) Vadodara Office.
3. Bank Detail is given on Front Page.
 - **The screenshot of payment made through NET / UPI / ONLINE must be forwarded to Er. S M Baxi, Secretary-Finance on WhatsApp Number 9909940562 with details of Name of Organization, SPONSOR /ADVERTISER /INDIVIDUAL, etc.**
 - **Amount of Sponsorship/Advertisement/Delegate fee of all Categories will be Acceptable with GST only.**

I. Contact Persons:

For any further information, you may please contact any one of the following:

1. Er. SM Takalkar, Conference Convener 9925233951 spevadodara01@rediffmail.com
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