Report for IEEE PES Outstanding Chapter

The joint Chapter of the Power & Energy Society and Industry Applications Society CH10219 (PE31/IA34)

Website: https://ewh.ieee.org/r10/delhi/

In reference to the cited subject, we hereby submit the OCA report for the joint Chapter of the Power & Energy Society and Industry Applications Society CH10219 (PE31/IA34). The joint Chapter of the Power & Energy Society and Industry Applications Society started in Delhi in the year 1997. In the year 2000, the Chapter received the PES Outstanding Chapter Award (Small), and in 2003, 2006, and 2013 PES Outstanding Chapter Award (Large).

It has in total <u>59 activities</u> in the year 2023. The summary of the activities is attached herewith in the following categories:

- Technical, Educational and Student Activities
- Societal Activities
- Affinity Groups (WIE, WiP, YP)
- Membership Advancement,
- PES Conferences
- Fellow Nominations and Awards,
- Chapter Operations, Communications Channels and
- Enlistment of New PES Members among

1. Technical Activities

| S. No. | Event Title | Event Date & Time | Number of Attendance | Event URL |
|--------|---|----------------------|-------------------------|---|
| 1. | Renewable Energy Integration In Smart Grid Environment | 04-01-2023 11:00 | 26 | https://events.vtools.ieee.org/m/341870 |
| 2. | Wide Bandgap Power Electronics For Heavy Duty Vehicles | 12-01-2023 11:00 | 40 | https://events.vtools.ieee.org/m/341744 |
| 3. | Indian Railways, Challenges & Future Ahead | 27-01-2023 14:00 | 124 | https://events.vtools.ieee.org/m/344075 |
| 4. | Use of Energy Storage For Reliability Improvement of Renewable Generation | 09-02-2023 17:00 | 37 | https://events.vtools.ieee.org/m/346951 |

| | Experimental | | | |
|-----|--|---------------------|-----|---|
| 5. | Implementation of Doubly Fed Induction Generator For Wind Energy Conversion Systems | 24-02-2023 11:00 | 33 | https://events.vtools.ieee.org/m/349176 |
| 6. | NREL's Advanced Distribution Management Systems Research | 01-03-2023 16:00 | 30 | https://events.vtools.ieee.org/m/350091 |
| 7. | Power System Operation With High Renewable Integration | 16-03-2023 11:00 | 76 | https://events.vtools.ieee.org/m/351818 |
| 8. | Tech Day | 27-03-2023 10:00 | 578 | https://events.vtools.ieee.org/m/357384 |
| 9. | Technical Visit 8th Smart Cities India Expo 2023 at Pragati Maidan Delhi | 29-03-2023 11:00 | 34 | https://events.vtools.ieee.org/m/360835 |
| 10. | World's Largest Climate Clock Assembly & Display Event | 22-04-2023 09:00 | 17 | https://events.vtools.ieee.org/m/380173 |
| 11. | Advanced Methods For Condition Monitoring of Electric Motors Based on The Analysis of Electrical Quantities | 25-04-2023 15:30 | 57 | https://events.vtools.ieee.org/m/358707 |
| 12. | Challenges in Power Electronics Based Product Design and Development | 05-05-2023 11:00 | 44 | https://events.vtools.ieee.org/m/358200 |
| 13. | Power Electronics: A Key Technology for Transport Decarburization | 18-05-2023 14:00 | 35 | https://events.vtools.ieee.org/m/361578 |
| 14. | Webinar On Photovoltaic Solutions Helping the Global Energy Transition SPARK IEEE R10 PES SCC Expert Lecture Event No.1 | 26-05-2023 19:30 | 60 | https://events.vtools.ieee.org/m/362176 |
| 15. | G-20 Summit Quiz Completion | 28-05-2023 00:00 | 90 | https://events.vtools.ieee.org/m/371857 |
| 16. | Stakeholder's Meet on Traceable PMU Usage To Enhance Power Grid Reliability | 08-06-2023 10:00 | 75 | https://events.vtools.ieee.org/m/363442 |
| 17. | STC on Modeling, Simulation, And Control of Renewable Energy Systems | 12-06-2023 10:00 | 92 | https://events.vtools.ieee.org/m/364408 |

| | IEEE PELS Day | | | |
|-----|--|---------------------|-----|---|
| 18. | Celebration Series: Deployment of E-Mobility | 12-06-2023 11:00 | 44 | https://events.vtools.ieee.org/m/363963 |
| | in the Ongoing Energy | 11:00 | | |
| | Transition in India | | | |
| | IEEE Xplore Digital | | | |
| 10 | Library (ASPP Online | 17-06-2023 | 21 | 1.44 |
| 19. | And POP Online): | 16:00 | 21 | https://events.vtools.ieee.org/m/371816 |
| | Delivering Research | | | |
| | Better Than Ever | | | |
| | Performance of Solar PV | 19-06-2023 | | |
| 20. | Plant Under Different | 15:00 | 41 | https://events.vtools.ieee.org/m/364490 |
| | Shading Conditions: | 12,00 | | |
| | Complete Investigations | | | |
| 21. | IEEE PELS Day Celebration on 20th June | 20-06-2023 | 63 | https://events.vtools.ieee.org/m/358205 |
| | 2023 | 14:30 | | |
| | Evolution of Propulsion | | | |
| | Technology in Rail | 20-06-2023 | | |
| 22. | Guided Transportation | 16:00 | 41 | https://events.vtools.ieee.org/m/364687 |
| | System Including | 10.00 | | |
| | Hyperloop | | | |
| | Technical Talk on | | | |
| | "Resonant Wide-Area | 21-06-2023 | 4.0 | 1 |
| 23. | Forced Oscillations in | 16:30 | 40 | https://events.vtools.ieee.org/m/396446 |
| | Large Power | | | |
| | Interconnections" | | | |
| | IEEE PELS Day | | | |
| | Celebration Series: | 21-06-2023 | | |
| 24. | Resonant Wide-Area | 16:30 | 45 | https://events.vtools.ieee.org/m/363964 |
| | Forced Oscillations In | 10.00 | | |
| | Large Power | | | |
| | Interconnections Modern Optimization and | | | |
| | Modern Optimization and Control for 100% | 26.06.2022 | | |
| 25. | Sustainable Energy | 26-06-2023 12:30 | 57 | https://events.vtools.ieee.org/m/364693 |
| | Communities and | 12.50 | | |
| | Countries | | | |
| | Solid State Transformers | 30-06-2023 | | |
| 26. | For Distributed Energy | 17:00 | 55 | https://events.vtools.ieee.org/m/365437 |
| | Applications | | | |
| 27. | Neuro-Controllers for | 10-07-2023 | 42 | https://events.vtools.ieee.org/m/365374 |
| 21. | Nonlinear Systems | 11:30 | 72 | 1111.ps.//events.vtools.teee.org/111/3033/4 |
| | | | | |
| | Remaining Useful Lifetime Management of | 03-08-2023 | 5.5 | 1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| 28. | Modular Power | 14:30 | 55 | https://events.vtools.ieee.org/m/367671 |
| | Converters: Advantages | | | |
| | Convercers. Advantages | <u> </u> | | |

| | and Collateral Negative Effects | | | |
|-----|--|---------------------|-----|---|
| 29. | Increasing the Linear Modulation Range to The Base Speed for an Inverter Fed IM Drive | 09-08-2023 15:00 | 38 | https://events.vtools.ieee.org/m/368949 |
| 30. | Webinar on IEEE PES Standard Association and Industry Connect Program Overview Spark IEEE R10 PES SCC Expert Lecture Event No.2 | 12-08-2023 17:00 | 23 | https://events.vtools.ieee.org/m/372425 |
| 31. | Multi Level Bridge Tapped Resonant Converter With Integrated Magneticâ Components | 18-08-2023 15:00 | 17 | https://events.vtools.ieee.org/m/368861 |
| 32. | Towards Net Zero: The Challenges of Energy Transition | 01-09-2023 17:00 | 36 | https://events.vtools.ieee.org/m/372662 |
| 33. | Industrial Visit to National Load Dispatch Centre(NLDC) | 09-10-2023 12:30 | 31 | https://events.vtools.ieee.org/m/388333 |
| 34. | Thomas Alva Edison Memorial Lecture by Dr Kalyan Sen: Delhi Section Jt. Chapter, PE31/IA34 | 22-11-2023 14:30 | 62 | https://events.vtools.ieee.org/m/380770 |
| 35. | IEEE PES-Jt. Chapter Hyderabad Section/ R10 Pes India Chapters Annual Global Workshop 2023- 4th Edition "Smart Technologies In Power & Energy Systems" | 24-11-2023 08:30 | 124 | https://events.vtools.ieee.org/m/382582 |
| 36. | Tech Roadmap Talk With Ms. Ashna Anjum | 25-11-2023 11:30 | 55 | https://events.vtools.ieee.org/m/388547 |
| 37. | 2023 9th IEEE India International Conference on Power Electronics IICPE2023 | 28-11-2023 09:00 | 140 | https://events.vtools.ieee.org/m/389193 |
| 38. | Key Note Address on EVs : Delhi Section Jt. Chapter, PE31/IA34 | 28-11-2023 11:30 | | https://events.vtools.ieee.org/m/402570 |
| 39. | Multiscale Approach for Novel Power-Electronics Controls, Topology, and Reliability | 22-12-2023 11:00 | 32 | https://events.vtools.ieee.org/m/394393 |

2. Societal Activities

| S. No. | Event Title | Event Date & Time | Number of Attendance | Event URL |
|--------|---|-------------------|-------------------------|---|
| 1. | IEEE PES-IAS Delhi Chapter Annual General Meeting | 12-02-2023 13:00 | 16 | https://events.vtools.ieee.org/m/395018 |
| 2. | 1st Execom meeting of joint Chapter of Power & Energy Society and Industry Applications Society | 19-02-2023 18:30 | 12 | https://events.vtools.ieee.org/m/395527 |
| 3. | Special Execom meeting of the IEEE PES-IAS Delhi Chapter | 20-04-2023 08:00 | 13 | https://events.vtools.ieee.org/m/395555 |
| 4. | 2nd Executive Committee meeting of IEEE PES-IAS Delhi Chapter | 27-05-2023 14:00 | 9 | https://events.vtools.ieee.org/m/395533 |
| 5. | 3rd Execom meeting of the IEEE PES-IAS Delhi joint chapter | 16-09-2023 11:00 | 12 | https://events.vtools.ieee.org/m/395546 |
| 6. | Fourth Execom meeting of the IEEE PES-IAS Delhi Chapter | 17-12-2023 12:30 | 12 | https://events.vtools.ieee.org/m/395551 |
| 7. | Joules of Joy - Harness the vibrant spirit of Viksit Bharat: Energizing Futures with Fun and Energy | 24-12-2023 11:30 | 105 | https://events.vtools.ieee.org/m/393882 |
| 8. | The session on Accreditation | 25-05-2023 14:00 | 110 | https://events.vtools.ieee.org/m/361969 |

| | Process in India | | | |
|-----|------------------|------------------|-----|--|
| | under | | | |
| | Education | | | |
| | activities | | | |
| 9. | The session on | | | |
| | Accreditation | | | |
| | Process in India | | | https://events.vtools.ieee.org/m/361970 |
| | under | | | and the state of t |
| | Education | 09-06-2023 11:00 | 180 | |
| | activities | 09-00-2023 11.00 | 160 | |
| 10. | Social | | | |
| | Awareness | | | |
| | Event on Health | | | |
| | and Well Being | | | https://events.vtools.ieee.org/m/388329 |
| | and | | | |
| | Environment | 06-10-2023 17:00 | 70 | |
| | Protection | 00 10 2023 17.00 | 70 | |
| 11. | Hitachi Energy | | | |
| | India Ltd, under | | | |
| | the CSR and | | | |
| | WIE program | | | https://events.vtools.ieee.org/m/406139 |
| | provided | | | |
| | scholarships, | | | |
| | laptops, and | 24-11-2023 11:30 | | |
| | mentorship | | | |
| 12. | A Drawing | | | |
| | Competition on | | | httms://syents.vita.els.ioog.org/m/250645 |
| | Renewable | | | https://events.vtools.ieee.org/m/359645 |
| | Energy Sources | 29-04-2023 16:30 | 71 | |
| | for School Kids | | | |
| 13. | Awareness of | | | |
| | Renewable | | | https://events.vtools.ieee.org/m/359643 |
| | Energy Sources | 29-04-2023 16:30 | 61 | |
| | for School Kids | | | |
| 14. | Students | | | |
| | Mentorship | | | |
| | Program: | | | https://events.vtools.ieee.org/m/359646 |
| | Career | | | |
| | Counselling for | 29-04-2023 17:30 | 41 | |
| 4 = | School Students | | | |
| 15. | Benefits of | | | |
| | Taking IEEE | | | https://events.vtools.ieee.org/m/353857 |
| | PES | 26-03-2023 18:00 | 58 | |
| | Membership: | | | |

| | Awards, | | | |
|-----|------------------|------------------|-----|---|
| | Fundings and | | | |
| | Scholarship | | | |
| | opportunities | | | |
| | for UG,PG and | | | |
| | Ph.D | | | |
| 16. | We Leads: | | | |
| | Women | | | https://events.vtools.ieee.org/m/356793 |
| | Empowering | 11-04-2023 14:30 | 150 | |
| | Women in Tech | 11 01 2023 11.50 | 150 | |
| 17. | SheLeads - | | | |
| | Women | | | https://events.vtools.ieee.org/m/356790 |
| | Empowering | 11-04-2023 14:30 | 160 | |
| | Women in Tech | | | |
| 18. | Industrial Visit | | | |
| | of 2nd Year BE | | | 1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| | Electrical | | | https://events.vtools.ieee.org/m/359279 |
| | Engineering | 21-04-2023 09:30 | 48 | |
| | Students | | | |
| 19. | Lecture on | | | |
| | Advanced | | | |
| | Control | | | 144 |
| | Techniques for | | | https://events.vtools.ieee.org/m/367722 |
| | Inverters in | | | |
| | Autonomous | 26-07-2023 14:59 | 18 | |
| | Power Systems | | | |
| 20. | IEEE PES-IAS | | | |
| | Delhi Chapter | | | https://events.vtools.ieee.org/m/395018 |
| | Annual General | 12-02-2023 13:00 | 16 | |
| | Meeting | | | |

3. Membership Advancement, Fellow Nominations and Awards

• Activities to increase PES Young Professionals (YP) Membership / YP ExCom Involvement:

- a) Benefits of Taking IEEE PES Membership: Awards, Funding, and Scholarship opportunities for UG, PG, and Ph.D; https://events.vtools.ieee.org/m/353857
- b) The Students Mentorship Program was done by involving the YPs -Thapar Institute of Engineering & Tech, IA34/PE31, https://events.vtools.ieee.org/m/359646
- c) G20 Quiz Competition at Maharaja Surajmal Institute of Technology
- d) This year, the PES-IAS Joint chapter also provided support to organize Delhi student Young Professionals, Women in Engineering, and life member DSSYWLC2023, in which various YPs participated and interacted with other members of the chapter.
- e) Various Technical talks have been organized in the fields where several YPS are doing PhDs. All the events are reported on v-tools.

• Activities to increase Women in Engineering (WIE) Membership / WIE ExCom Involvement:

- a) She Leads Women Empowering Women in Tech: discussion with WIE-PES students by Women in Power of Delhi PES-IAS Chapter at the Netaji Subhas University of Technology.
- b) We Lead; Women Empowering Women in Tech: A panel discussion organized with the Woman in Power of Delhi Chapter at NSUT New Delhi.
- c) The PES-IAS Joint chapter this year also provided support to organize Delhi student Young Professionals, Women in engineers, and life member DSSYWLC2023 in which a panel discussion with WIE-PES members was organized.
- d) Hitachi Energy India Ltd, under the CSR and WIE program provided scholarships, laptops, and mentorship for four years for four underprivileged girls of Electrical Engineering of PES-IAS Chapter on 24th November 2023 which was attended by two EXECOM members of PES-IAS Delhi Chapter.

• Activities to Increase or Retain Membership:

- a) Students Mentorship Program: Career Counselling for School Students. https://events.vtools.ieee.org/m/359646
- b) During IEEE PES President Dr. Jessica's visit after a special EXECOM a meeting was organised at Grid India and PowerGrid in her presence and that enhanced the membership growth by these industries.
- Technical visit 8th Smart Cities India Expo 2023 at Pragati Maidan Delhi by MAIT student members
- d) By organizing SheLeads: Discussion amongst Delhi Chapter Students for awareness about IEEE PES, WIE, and their volunteering aspects.

• Activities to Support Senior Member/Fellow Advancement:

a) The Nomination Committee forwarded the nomination and Prof B K Panigrahi, IIT Delhi became the Fellow in 2023.

b) Awareness was spread to the chapter members and as a result many members were elevated to SM grade in 2023.

• PES Conferences

a) The 9th IEEE India International Conference on Power Electronics (IICPE-2023) was sponsored by the IEEE Delhi Section, IEEE PES-IAS & IEEE PELS-IES Delhi Chapters. It was held at DCRUST, MURTHAL, SONIPAT, Haryana (NCR, Delhi, India) from 28-30 Nov. 2023. A total of 263 papers were submitted, out of which 123 papers were selected for oral presentation after peer reviews, and 110 papers were finally registered for presentation.

• Chapter Operations, Communications Channels

a) Website: https://ewh.ieee.org/r10/delhi/

b) Facebook: https://www.facebook.com/prernagaur

c) LinkedIn: https://www.linkedin.com/in/prof-prerna-gaur-1819621/

• Member Recognition / Awards Activities:

a) The Nomination Committee recommended the following IEEE PES Chapter Awards for 2023 in various categories:

 Outstanding Chapter Engineer Awards for 2023 (with less than 15 years) among PES Members: Dr. Anshul Varshney

2. Outstanding Chapter Engineer Awards for 2023 (more than 15 years in the profession) among PES Members: Dr. Rohit Bhakar

 IEEE PES High Performing Student Branch Chapter Program: Student Chapter NSUT Delhi

4. Enlistment of New PES Members

| S. No. | Membership Number | First Name | Last Name | Email Address | Grade |
|--------|----------------------|----------------|--------------|--|----------------------------|
| 1. | 98769382 | Shilpa | Bindal | eez198371@iitd.ac.in | Graduate Student Member |
| 2. | 99350870 | Agrima | Chandra | agrimachandra512@gmail.com | Graduate Student Member |
| 3. | 99764543 | P Amritansh | Naidu | p.amritanshnaidu@gmail.com | Graduate Student Member |
| 4. | 98409830 | Arup | Anshuman | arupanshuman91@gmail.com | Graduate Student Member |
| 5. | 97811849 | Swati | Agarwal | swati.20eez0001@iitrpr.ac.in | Graduate Student Member |
| 6. | 99598428 | Ashish | Karaiya | ashishkaraiya@gmail.com | Graduate Student Member |
| 7. | 98783199 | Arjita | Pal | eez197563@ee.iitd.ac.in | Graduate Student Member |
| 8. | 99441272 | Rakesh Shamrao | Patekar | rakesh.shamrao.patekar@ee.iitd .ac.in | Graduate Student Member |
| 9. | 99422912 | Adnan Farooq | Khan | eez197567@ee.iitd.ac.in | Graduate Student Member |
| 10. | 99275683 | Prabhat | Kumar | prabhat.21eez0021@iitrpr.ac.in | Graduate Student Member |
| 11. | 99332276 | Rupali | Singh | rsingh_phd21@thapar.edu | Graduate Student Member |
| 12. | 99370569 | Sonal | Vaishnav | sonu.vaishnav26@gmail.com | Graduate Student Member |
| 13. | 99342573 | Amlan | Maity | amlan22m@gmail.com | Graduate Student Member |
| 14. | 98990480 | Krishna Prasad | Naik | kpnaik92@gmail.com | Graduate Student Member |
| 15. | 99168121 | Poonam | Sharma | psb.478@gmail.com | Graduate Student Member |
| 16. | 99169783 | Rajat | Yadav | rrajatyyadav@gmail.com | Graduate Student Member |
| 17. | 98555833 | Gaurab | Dash | gaurab8.dash@gmail.com | Graduate Student Member |
| 18. | 97898914 | Mudaser Rahman | Dar | m.dar@iitg.ac.in | Graduate Student Member |
| 19. | 99108370 | Jitendra Kumar | Prajapati | phd2201102023@iiti.ac.in | Graduate Student Member |
| 20. | 98865642 | Ankit Kumar | Singh | esz238378@iitd.ac.in | Graduate Student Member |
| 21. | 99094790 | Sanchita | Kumari | skumari60_phd18@thapar.edu | Graduate Student Member |
| 22. | 99051616 | Ankush | Thakur | ankush.thakur.4879@gmail.com | Graduate Student Member |
| 23. | 98606245 | Ritika | Agarwal | ragarwal_phd19@thapar.edu | Graduate Student Member |
| 24. | 93155078 | Ajay Kumar | Pathania | er.ajaypathania@yahoo.in | Member |
| 25. | 98124497 | Mohammad Imran | Khan | reach2mohammad.imran@gmai l.com | Member |
| 26. | 99695675 | Deepak | Kumar | deepak.k@grid-india.in | Member |
| 27. | 99160558 | Sumit | Saini | drsumiteed@cuh.ac.in | Member |
| 28. | 99388742 | Varun | Kumar | vknptico@gmail.com | Member |
| 29. | 98258066 | Tunisha | Soni | tunisha@powergrid.in | Member |

| | | | | 1 |
|----------|--|---|--|---|
| | - | | | Member |
| 99391082 | · · | Kumar | , ,, | Member |
| 99393010 | Mohit Kumar | Gupta | mohitgupta432@gmail.com | Member |
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| 98910751 | Yogesh Deepak | Deshmukh | t21243@students.iitmandi.ac.in | Member |
| 97640898 | Aaryan | Sharma | aaryan.sharma0403@ieee.org | Member |
| 99147541 | Amardeep | Singh | amardeepsagi@hotmail.com | Member |
| 94121735 | Ambrish | Devanshu | ambrish.devanshu@gmail.com | Member |
| 98812989 | Arun Kumar | Nayak | arunnayak6007@gmail.com | Member |
| 93450926 | Rajesh | Kumar | rajeshmahindru23@gmail.com | Senior Member |
| 92120835 | Pooja | Jain | poojajain624@gmail.com | Senior Member |
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| 99768361 | Ali | Jaipuri | aliasgar.ai23@bmsce.ac.in | Student Member |
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| 99651794 | Hardik | Vohra | hardikvohraemail@gmail.com | Student Member |
| 99651944 | Oorja | S | oorjaclg@gmail.com | Student Member |
| 99654793 | Aditya | Gosain | gosainaditya@yahoo.com | Student Member |
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| 99656013 | Tanishq | Kumar | kumartanishq093@gmail.com | Student Member |
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| 99662620 | Harsh | Swami | harshswami0987@gmail.com | Student Member |
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| 99669602 | Ankit Kumar | Mishra | mishrankit742@gmail.com | Student Member |
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