

IEEE Power & Energy Society Bangalore Chapter, India



Submission of 2022 Summary of Activities for

“Outstanding Chapter Award 2022”



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1.0 EXECUTIVE SUMMARY / NOMINATION

1.a EXECUTIVE SUMMARY

IEEE PES Bangalore chapter once again had another important and action-packed year 2022. Highlights were • IEEE PES Global workshop 2022, IEEE PES Student Congress, Women in Power Engineering, Young Researchers meet, Industry-Academia Conclave etc.

Summary of the events and recognitions:

- IEEE PES Global workshop 2022
- Women in Power Engineering (WIPE)
- Young Researchers Meet (YRM)
- Industry-Academia Conclave (IAC)
- 08 EXECOM meetings
- Four Webinars on Technical talks
- PES student branch advisor's meet
- 300+ Professional Members and 1500+ Student Members as on Dec 31, 2022

Accordingly, all the activities conducted in the year 2022 are reported in vTools and same is presented below for ready reference.

1	Event Title	Event Date	Event Category	Event Sub-category	Event Location	Number of Attendance	Number of IEEE Member Attendees
2	IEEE PES Global Workshop 2022	14/12/22 9:00	Professional	Professional Development	Bangalore, Karnataka, India	40	20
3	DLP lecture by Dr Saifur Raham	12/12/22 11:00	Professional	Professional Development	Bangalore, Karnataka, India	18	7
4	Execom meeting	05/12/22 19:00	Administrative	ExCom		11	11
5	IEEE ICRAIE 2022	01/12/22 9:00	Technical	Not Available	Surathkal, Karnataka, India	50	20
6	Execom meeting	05/11/22 19:00	Administrative	ExCom		12	6
7	Student Project Funding	05/11/22 15:00	Professional	Continuing Education	BMS College of Engineering, Bangalore	15	15
8	Young Researchers Meet 2022	04/11/22 9:00	Professional	Professional Development	BMS College of Engineering, Bangalore	35	15
9	IPR challenges in Industry Academia	21/10/22 9:30	Professional	Professional Development	UVCE, Bangalore, Karnataka, India	75	5
10	Execom meeting	17/10/22 19:00	Administrative	ExCom		7	7
11	Execom meeting	24/08/22 19:00	Administrative	ExCom		13	13
12	Tech Talk 4	23/07/22 11:00	Technical	Not Available	Christ, Bangalore, Karnataka, India	30	20
13	Execom meeting	04/07/22 19:10	Administrative	ExCom		8	8
14	Tech Talk 3	11/06/22 11:00	Technical	Not Available	BMS College of Engineering, Bangalore	40	10
15	AI for social good	11/06/22 9:00	Technical	Not Available	CDAC, Bangalore, Karnataka, India	60	50
16	Student Branch Committee Event	06/06/22 10:30	Professional	Continuing Education	UVCE, Bangalore, Karnataka, India	20	10
17	Tech Talk 2	28/05/22 11:00	Technical	Not Available		35	15
18	Execom meeting	07/05/22 19:00	Administrative	ExCom		8	8
19	Inauguration of IEEE PES student Branch	23/04/22 9:15	Professional	Professional Development	NMAMIT, NITTE, NITTE, Karnataka, India	80	40
20	Technical Talk & Inauguration of IISc	22/04/22 17:00	Technical	Not Available	Multi Media-+Classroom, Indian Institute of Science	90	40
21	Tech Talk 1	09/04/22 11:00	Technical	Not Available	MSRIT, Bangalore, Karnataka, India	90	20
22	Execom meeting	27/03/22 19:00	Administrative	ExCom	Bangalore, Karnataka, India	11	11
23	Synergizing Project Based Learning	26/03/22 17:00	Technical	Not Available	Kattigenahalli, Bangalore, Karnataka, India	56	53
24	Execom meeting	13/03/22 19:00	Administrative	ExCom		15	15
25	Women's day celebrations - Personal	09/03/22 10:00	Professional	Professional Development		15	5

Picture 1: Events reported in vTools for the year 2022

Office	bearers	(2022):
Chair	: Mr. S. Rajashekhar,	OSI
Chair Elect	: Dr. Chandrasekhar Reddy Atla,	PRDC
Vice Chair	: Dr. Gurunath Gurrala,	IISc
Secretary	: Dr. Deepaknath Tandur, Hitachi Energy	
Treasurer	: Dr. Manohar Singh, CPRI	

1.b REGION WISE REPRESENTATION

- Representative from PES Bangalore Chapter, Dr. Chandrasekhar Reddy Atla, Chair-Elect has attended the Chapters Chair meeting on 1st Nov 2022 in Singapore.



Picture 2: PES chapter Members during Chapter Chair meeting



- There were around 10-15 chapter representatives from various part of R10 region are attended.
- The other office bearers of R10 and HQ attended were Dean Sharaffi, Dr. Nirmal Nair, Dr. Surekha.

2.0 ACTIVITIES

2.a Conferences and Workshops

2.a.1 IEEE PES global workshop 2022

IEEE PES Global Workshop-2022 on the 14th and 15th of December 2022. This workshop is organized by PES India Chapters Council in association with IEEE Standards Association and PES Chapter, Bangalore.

Workshop Theme: Sustainable Transformation of Energy Ecosystem

This year, the workshop is being organised in Hybrid mode and more details can be found in the attached flyer.

Workshop Webpage: <https://r10.ieee.org/ic-pes/ieee-pes-global-workshop-2022/>

Theme of the Workshop

Energy is the most vital requirement for all activities on the planet and is also a key enabler for industrialization, which in turn fosters the economic growth of a nation. A significant portion of the energy needs today is fueled by fossil fuels and is responsible for global greenhouse gas emissions. Inefficiencies at various stages of the energy ecosystem can result in wastage/sub-optimal use of available energy resources. These factors make the current energy ecosystem less sustainable in the long run.

The energy needs of the globe would only increase and hence there is an urgent need to focus on the sustainability of the entire energy ecosystem. Governments worldwide are investing heavily in this direction by promoting the use of renewable energy and setting ambitious emission goals. Digitisation of the ecosystem, improved asset management, smartening of the grid, and use of distributed generation are other pathways to achieve sustainability. In this context, the workshop is being organized to deliberate on the best practices being adopted across the globe.

The workshop invites the participation of stakeholders from the power and energy field viz., utilities, financial institutions, entrepreneurs, bureaucrats, technocrats, regulators, policy makers, researchers and academia.



Picture 3: IEEE PES global workshop 2022

2.a.2 IEEE ICRAIE 2022

The IEEE International Conference on Recent Advances and Innovations in engineering <https://icraie.nitk.ac.in/> (7th IEEE ICRAIE 2022) was held at NITK Surathkal in Hybrid mode during 1-3 December 2022.

The conference was conducted together with leading academic scientists, researchers and research scholars to exchange and share their experiences and research results on all aspects of Recent Advances in Informatics Engineering. It also provided a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Recent Advances and Innovations in Engineering.

IEEE PES Bangalore Chapter was the technical partner to ICRAIE'22 .

2.b PROFESSIONAL PROMOTION

2.b.1 IPR challenges in Industry and Academia

IEEE PES Bangalore Chapter in association with IEEE UVCE Power and Energy Society conducted a talk to provide an insight on IPR Challenges in Industry-Academia Conclave (IAC). The esteemed speaker of the session was Dr. Y V S Lakshmi, Group leader of IPR and Knowledge Management Group, Center of Development of Telematics (C-DOT), Bengaluru.

Starting with the fundamentals of IPR policies, the session outlined the procedures and conditions for filing, funding and transferring patents with details on how to submit a patent application on our own.

Filled with engaging facts and with a bit of humour, Dr. Lakshmi Ma'am also discussed the need for trademarks, trade secrets, copyright and plagiarism, and how they play a vital role. The talk also covered the Patent Codex and Protection. Dr. P Deepa Shenoy Ma'am, Chairperson of IEEE Bangalore Section and Dr. H S Veena Ma'am, Advisor of IEEE UVCE PES were also present during the session. The participants interacted well with the speaker and clarified their doubts.

Date: 21st October, 2022

Time: 2:30 PM to 4:00 PM

Venue: Senate Hall, UVCE

No. of Participants: 70



Picture 4: Speakers and Topics in IAC-2022

2.b.2 Women's Day Celebrations- Personal Branding

Date: 9 March 2022

Speaker - Suma Annegowda gave the talk on personal branding

- She is a Career Coach, have got decade plus experience in IT Project management, served in public sector and got exposure to work in start-up environment.
- Suma has mastered the magic formula to help people get rid of their blockers, enable them to step into their excellence zone.
- Her purpose today is to share this awesome sauce with everyone, so that each person gets an opportunity to fly high.



- She is **Proprietor** of Sandeep Service station-HPCL (Hindustan Petroleum Corp Ltd), Hassan (since 2006)

–**Secretary** of COWE (Confederation of Women Entrepreneur)- Karnataka Chapter

–**Core Committee Member** for women Wing of Laghu Udyog Bharati(LUB - Karnataka)

–**Founder member** of Startup AvalaHejje

–**Member** of ALL Ladies League

–**Council member** of WICCI -Karnataka for Diversity and Inclusion sector

–**Mentor @ Prayaana Labs and**

- She is a **LinkedIn Coach**, has delivered many sessions to 5000 plus college students, Women Entrepreneurs & Women working Professionals to Leverage LinkedIn
- She is actively involved in many programs which encourage the women to get back to work and boost morale of Women Entrepreneurs.
- She has received the recognition and excellence awards from COWE-Karnataka in 2019 and 2021.
- She is Featured in many platforms: like- her money talks, yourstory.com just to name a few.

2.c TECHNICAL ACTIVITIES

2.c.1 Student branch Advisors and Chairs meet

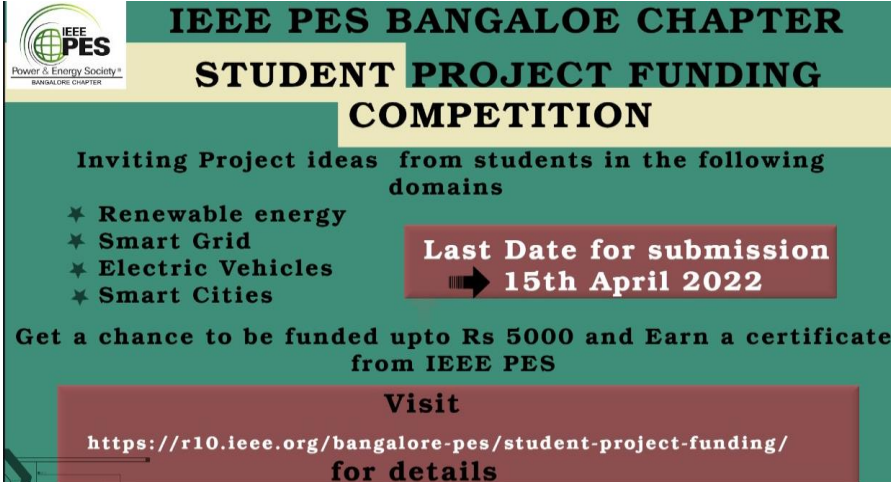
The event was organized at UVCE on 6th June

- Session was addressed by the IEEE chair, P Deepa Shenoy, underlining the importance of student chapters and their activities and collaboration.
- Session was addressed by Execom Member ,Satish BA , giving a brief outline of the event.
- Session was addressed by IEEE PES chair , Rajashekhar S , providing a detail insight into how student chapters should operate. What practices to be followed to be Able to perform good activities and how IEEE PES Bangalore can support them .
- The following student chapters presented the report as well as the plan for the current year: BEC, BMSCE, DSATM, DSCE, UVCE, KLS GIT, MSRIT, GAT, VVCE.
- A networking activity was conducted for the student chairs, allowing them to know each other better and create a good network of student chairs.

2.c.2 Student Project Funding

IEEE PES organized student project funding program. Below the details of the guideline that were published.

- Team size : Minimum 1 member; Maximum 4 members.
- At least one member of the group should be active member of IEEE PES in 2022
- Each group has to submit an abstract of their idea in the prescribed format only.
- Shortlisted teams need to make a presentation of the project
- All the teams which present the innovative ideas will be provided with an e-certificate.
- Based on the presentations given by student groups, the Teams will be shortlisted for the project funding of Rs 5000
- The teams will be given 3 months time to implement and present their project prototype
- Teams successfully presenting their prototype will receive the funding along with a certificate.
- Student branches get an incentive of Rs 1000 for every project that is selected from their college.



IEEE PES BANGALORE CHAPTER
STUDENT PROJECT FUNDING
COMPETITION

Inviting Project ideas from students in the following domains

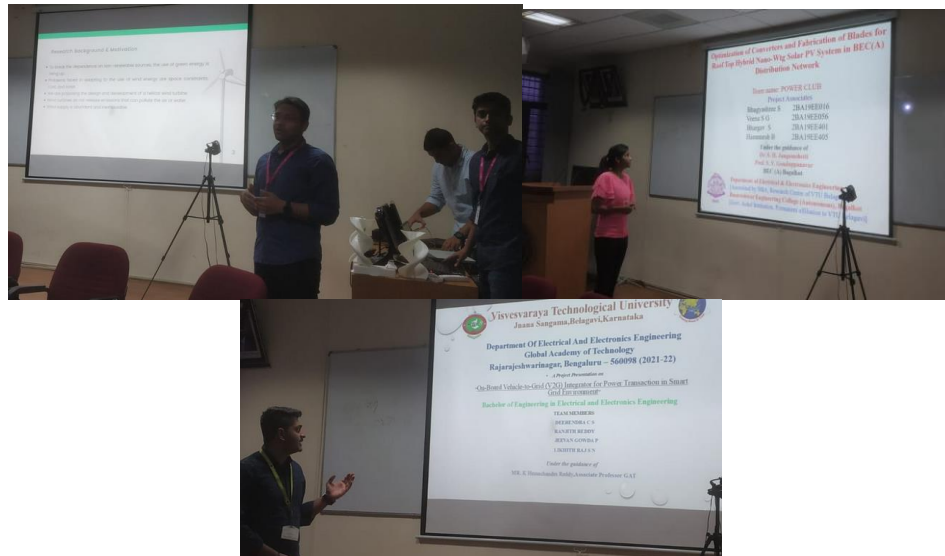
- ★ Renewable energy
- ★ Smart Grid
- ★ Electric Vehicles
- ★ Smart Cities

Last Date for submission
➔ **15th April 2022**

Get a chance to be funded upto Rs 5000 and Earn a certificate from IEEE PES

Visit
<https://r10.ieee.org/bangalore-pes/student-project-funding/>
for details

Picture 5: Poster on Student Project Funding



Picture 6: Students' presenting projects at the Students' Project Funding

2.c.3 Young Researchers' Meet (YRM)

Young Researchers' Meet (YRM), which is the flagship event of the IEEE PES Bangalore Chapter, aims to provide a forum for bringing together young promising graduate students and researchers, as well as industry experts and intellectuals from across the country, in order to instill in the next generation a desire to play a significant role in scientific development in the domain of Power System Automation. It includes a wide variety of activities such as panel discussions, workshops, seminars, targeted sessions, and so on. All activities will be supervised by people who are highly trained and experienced. This would serve as a place for interactive debates and deliberations, as well as a venue for you to share your thoughts. The theme for the Young Researchers' Meet 2022 is Power System Automation.

Electrical engineering in power and automation deals with the automated generation, transmission, distribution, and utilization of electric power and the electrical devices connected to such systems including generators, motors, and transformers. Power-system automation includes processes associated with the generation and delivery of power.



Picture 7: Young Researchers Meet-2022





Picture 8: Participants at Young Researchers Meet-2022

2.c.4 AI Symposium followed by Hackathon on “AI for Social Good”

C-DAC Bangalore and IEEE Bangalore Section jointly organized a 2-day event at C-DAC electronic city, Bangalore during 11-12 June 2022.

The event started with a half-day AI symposium followed by 24-hour hackathon on “AI for Social Good”. Inaugural address was given by Shri Bindumadhava, Senior Director, C-DAC, Bangalore followed by expert talks from distinguished speakers Dr. Prasant Misra, Senior Scientist, TCS Research, Bangalore; Dr. S. D. Sudarsan, Executive Director C-DAC Bangalore; Dr. Dinesh Babu J, Associate Professor, IIIT-Bangalore and Dr. Navin Kumar, Professor, Amrita School of Engineering, Bangalore. The symposium was attended by over 200 participants in hybrid mode.

The UG/PG students from various engineering colleges were short-listed by the committee for participation in 24-hour hackathon. Total 24 teams participated in the Hackathon with 75 students. Professors from various reputed universities and members from C-DAC enrolled as mentors. Two mentors were assigned for each team and the event was supported by operational team members. Access to NSM PARAM Utkarsh facility at C-DAC Bangalore was provided to the teams for model building on GPUs and for inference. Themes for hackathon include AI for health care, AI for mental health, identifying cyberbullies on social media, IoT based Smart solutions, AI for agriculture, AI for language computing.



Jury at three levels evaluated and selected the finalists based on the novelty, complexity, presentation, and completion of demonstrable prototype. The final jury includes Dr S D. Sudarsan and Dr Aloknath De, Samsung India. They were supported by Dr Navin Kumar, Dr Janaki Ch, Dr Pushpamala S and Mr Mohit Ved.

This event was technically co-sponsored by the following:

1. IEEE Power & Energy Society Bangalore Chapter
2. IEEE Computer Society Bangalore Chapter
3. IEEE Special Interest Group on Humanitarian Technology Bangalore Section
4. IEEE Industry Application Society
5. IEEE Technology and Engineering Management Society Bangalore Chapter
6. IEEE Women in Engineering AG Bangalore Section
7. IEEE Vehicular Technology Society
8. M. S. Ramaiah University of Applied Sciences

PES Bangalore chapter sponsored first prize Rs 25000 and CS Bangalore Chapter sponsored second prize Rs 15000.

Best team from CMR University, School of Engineering and Technology was awarded first prize with a cash prize of Rs.25,000 for their prototype done on “Sign language interpreter using ML and NLP”, 2nd prize of Rs.15,000 was given to students from RV College of Engineering for “Covid-19 Smart door using Rpi”, and 3rd prize of Rs.10,000 for “AI-based Automated Mobile Cataract Screening System” to team from Amrita School of Engineering. Two consolation prizes worth Rs.5000 each was given for “Detection of Criminal Activities/Criminal through Public CCTV by analyzing live footage” to the team from Ramaiah Institute of Technology, Bengaluru and for “AI for Mental Health” to team from Amrita School of Engineering, Bangalore.

The event was technically and financially supported by various IEEE societies, RUAS, and the logistics were taken care by C-DAC Bangalore



Picture 9: AI for Social Good

2.c.5 Distinguished Lecture Program by Prof. Saifur Rahman

IEEE PES Distinguished Lecture Program on “Role of the Smart Grid in Facilitating the Integration of Renewables into the Power Grid”

Speaker: Prof. Saifur Rahman,

Date: 12th December, 2022

Time: 11:00 to 12:30

Location:

Power Research & Development Consultants Pvt. Ltd

5, 11th Cross Rd, 2nd Stage, West of Chord Road,

Bengaluru, PIN: 560086

Topic: Role of the Smart Grid in Facilitating the Integration of Renewables into the Power Grid

With the focus on environmental sustainability and energy security, power system planners are looking at renewable energy as supplements and alternatives. But such generation sources have their own challenges - primarily intermittency. It is expected that the smart grid – due to its inherent communication, sensing and control capabilities – will have the ability to manage the load, storage and generation assets (including renewables) in the power grid to enable a large-scale integration of distributed generation. In a smart grid, information about the state of the grid and its components can be exchanged quickly over long distances and complex networks. It will therefore be possible to have the integration of sustainable energy sources, such as wind, solar, off-shore electricity, etc. for smoother system operation. But in order for this to be possible, the electric utility will have to evolve, and change their ways of operation to become an intelligent provider of these services. This lecture introduces the operational characteristics of renewable energy sources, and various aspects of the smart grid -

technology, standards and regulations. It also addresses the interplay among distributed generation, storage and conventional generation to provide an efficient operational strategy in the context of the smart grid.



Picture 10: DLP by Prof. Saifur Rahman

2.c.6 Technical Talks

1. Techtalk: Protection and Control

The talk on "Protection and Control" was given by Mr. Amol Kolwalkar, Sr. Engineer, GE Global Research. This event was hosted in Hybrid Mode.

Date: 23rd July 2022 11:00AM to 12:30PM

Location: School of Engineering, Christ (Deemed to be University), Kengeri Campus, Bangalore



The poster features a green header with the IEEE PES logo and the text "Tech-Gyan A Tech Talk Series by IEEE PES Bangalore Chapter". The main title is "Inverter Interfaced Renewable Generations: Experience and Trends" and the specific talk is "Talk 4: Protection and Control". It is associated with PES SB Christ (Deemed to be University) and scheduled for 23 July 2022 from 11:00AM to 12:30PM in Hybrid Mode. The speaker is Amol Kolwalkar, Sr. Engineer at GE Global Research. The poster includes a circular portrait of Amol Kolwalkar, a "Click Here to Join on WebEx" button with a URL, and a background image of solar panels and a wind turbine.

IEEE PES
Power & Energy Society™

Tech-Gyan
A Tech Talk Series by IEEE PES Bangalore Chapter

Inverter Interfaced Renewable Generations: Experience and Trends

Talk 4: Protection and Control
In association with PES SB Christ (Deemed to be University)

📅 23 July 2022

🕒 11:00AM to 12:30PM

📍 Hybrid Mode

Offline: Dept of Electrical and Electronics, Christ, Kengeri Campus, Bangalore

Online: [Click Here to Join on WebEx](#)
<https://tinyurl.com/TechGyan-Talk4>

Amol Kolwalkar
Sr. Engineer, GE Global Research

Picture 11: Tech- Gyan Series

2. **Techtalk: Inverter Interfaced Renewable Generations: Experience and Trends**

IEEE PES Bangalore chapter has started TECH Gyan- A Tech talk series with the theme "Inverter Interfaced Renewable Generations: Experience and Trends." in Hybrid mode.

The third talk is on "Dynamic modeling of inverter interfaced generations"

This event is arranged on WebEx.

Date: 11th June 2022 11:00AM to 12:30PM

3. Tech Talk: Inverter Interfaced Renewable Generations: Experience and Trends

IEEE PES Bangalore chapter has started TECH Gyan- A Tech talk series with the theme, Inverter Interfaced Renewable Generations: Experience and Trends." in Hybrid mode. The second talk is on "Grid Integration and Grid Code Compliance" by Mr. Manoj Gupta, Senior Director at VESTAS TECHNOLOGY INDIA. This event is arranged on WebEx only.

Date: 28th May 2022 11:00AM to 12:30PM

Bio of the speaker:

Manoj Gupta received the M.Tech. degree in power systems from the Indian Institute of Technology, Kanpur, India, in 1996.,He has over 25 years of experience in power system analysis and modeling. He has worked with ABB in India and Germany and Mott MacDonald in the U.K. He is currently working with Vestas in Chennai as Senior Director. Before this he was in Vestas, Singapore, where he lead a team for wind power plant interconnection and grid code compliance studies. His areas of interest are power system analysis and modeling for renewable, oil, and gas, industrial plants, protection, and distribution network planning.



The poster for the Tech-Gyan series event features a green background with a wind turbine on the right and solar panels in the foreground. The text on the poster includes the IEEE PES logo, the series title 'Tech-Gyan', the event title 'Inverter Interfaced Renewable Generations: Experience and Trends', and the specific talk title 'Talk 2: Grid Integration and Grid Code Compliance'. It also lists the date '28 May 2022', time '11:00AM to 12:30PM', and mode 'Online Mode'. A circular portrait of Manoj Gupta is shown on the left, with his name and title 'Lead Senior Specialist - Vestas' below it. A URL is provided at the bottom: <https://tinyurl.com/TechGyan-Talk2>.

Picture 12: Tech- Gyan series



4. **Tech Talk: Planning, Forecasting, Scheduling, and Dispatch**

IEEE PES Bangalore chapter has started TECH Gyan- A Tech talk series with the theme, "Inverter Interfaced Renewable Generations: Experience and Trends." in Hybrid mode.

The first talk is on "Planning, Forecasting, Scheduling, and Dispatch" in renewable generation by Mr. Madhusudan Chakrapani, CTO, REConnect Energy, Bangalore is organized in association with PES SB of M. S. Ramaiah Institute of Technology

Brief Bio:

Madhu is leading the Engineering team at REConnect Energy. His team focuses on developing products and providing technology driven services for efficient Grid management and Power transactions. Work areas include distributed application development on cloud platforms, design and development of high volume data crunching platforms, transaction processing platforms - Automation of Business processes, data visualization platforms - real time and batch processing, data analytics - power forecasting using large data sets.

Some of the products developed by the team at REConnect Energy include - Clickpower.in, GridConnect Energy Management platform, Vaayu and Kiran Energy Forecasting platforms, Energy Dispatch and Automation (Scheduling) Software, Renewable Energy Management Center (REMC) applications for Forecasting and Scheduling.

Madhu has Bachelor's degree in Electrical Engg from Bangalore University and an MBA from Rotterdam School of Management.

Date: 09 April 2022 11:00AM to 12:30PM

Venue: Electrical Engineering Dept, MS Ramaiah Institute of Technology

Dept of Electrical and Electronics, MSRIT, Bangalore

3 MEMBERS

3.a MEMBER AWARDS/RECOGNITION/NOMINATIONS

3.a.1 Outstanding Service Award (OSA)

IEEE PES Bangalore chapter recognized the services of **Mr. Mustafa Wajid** who held various positions in industry, in the power engineering field and presented him with "Outstanding Service Award". This is an annual award which is given to an eminent engineer for the services in the field of Power Systems in Karnataka (under the jurisdiction of Bangalore chapter). The financial support for this award was supported by Power Research & Development Consultants private Limited.



Picture 13: Recipient of the Outstanding Service Award

3.a.2 Outstanding Engineer Award (OEA)

There were two awards given in the category of OEA, one for who has up to 15 years of experience and the other for more than 15 years of experience contributing for the power and energy engineering. **Dr. Panduranga Vittal K** was presented OEA award for the above 15 years of service category, for his immense contribution to Power and Energy engineering field and his leadership role in the growth of IEEE PES Bangalore chapter.

3.a.3 Outstanding Chapter Volunteer Award

An “Outstanding Volunteer” award has been bestowed upon Mr. Sateesh Ashwath for his exceptional and wholehearted voluntary services to IEEE PES Bangalore chapter.



Picture 14: Recipient of the Outstanding Chapter Volunteer Award

3.a.4 Best Student Branch Award

IEEE PES Bangalore chapter started giving this award to motivate the best performing Student Branch in the Jurisdiction. BEC, Bagalkot received the best Student Branch award for the year 2022 based on their contribution and activities in this field of power and energy.



Picture 15: Recipient of the Best Student Branch Award

3.a.4 Best Student Volunteer Award

IEEE PES Bangalore chapter has introduced this year to motivate the best performing Student volunteer for student branch activities in the Jurisdiction. Mr. Mahantesh Vijay Patil, KLS Gogte Institute of Technology and Miss. Kavya Kamal of Central University of Karnataka received Best Student Volunteer Award 2022 based on their volunteer contribution in this field of engineering.

3.b MEMBERSHIP ADVANCEMENT

As a standard practice, the chapter assigns one of the executive committee members as the lead for membership enhancement and one for overseeing student membership enrollment and adding more student chapters. IEEE PES Bangalore Chapter is collaborated with IEEE Bangalore section on SIMPLE, membership up-gradation program to promote Senior membership.

3.b.1 Inauguration of the IEEE PES Student Chapter at NMAMIT Nitte

Date: **23 Apr 2022**

IEEE PES Student Branch Chapter of NMAMIT, Nitte extended an invitation to the Inauguration of the Chapter at NMAMIT Nitte.

- The Chief Guest of the Inauguration was Sri Narasimha Pandit, Superintendent Engineer, MESCOM, Udupi.
- The Guests of Honor were Dr. Narendranatha Udupa, Former R&D Head, Philips India and Mr. Rajashekhar S, Chair, IEEE PES Bangalore Chapter.

- Dr. Niranjan N Chiplunkar, Principal, NMAMIT, Nitte, presided over the function.
- The inauguration was followed by the Keynote talk by Shri Narasimha Pandit. A talk on "Career opportunities in Electrical Engineering" was delivered by Dr. Narendranatha Udupa. This was followed by a talk by Mr. Rajshekhar S on "IEEE as a platform for professional growth". The programme was concluded by a Vote of Thanks

3.a.6 Inauguration of the IEEE PES Student Chapter at IISc

This event is to inaugurate the newly approved power and energy society (PES) student branch chapter (SBC) at Indian Institute of Science, Bangalore. As a part of inauguration, a technical talk by Dr. Sairaj Dhople is also arranged. This event is supported by IEEE Power and Energy Society Bangalore Chapter and IEEE Student Branch Chapter at Indian Institute of Science. This event is also technically supported by Department of Electrical Engineering, Indian Institute of Science.



Inaugural Ceremony
of
IEEE-PES Student Branch Chapter
at **IISc**
&
Technical Talk

Topic: "Power-System Modeling & Control for the Era of Inverter-based Resources"



Dr. Sairaj Dhople
University of Minnesota, USA

Dignitaries:

Mr. Rajasekhar S Chair, IEEE-PES, Bangalore Chapter	Prof. Udaya Kumar Chairman, EE Dept, IISc
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Program
05:15 pm - Refreshments
05:30 pm - Inaugural Ceremony
06:00 pm - Technical Talk

Host: IEEE-PES Student Branch Chapter, IISc & IEEE-PES Bangalore Chapter

Venue:
MMCR, EE Dept,
IISc
20 April 2022,
05:15 pm IST
&
Microsoft Teams:
<https://tinyurl.com/2p8krvpj>



Picture 16: IEEE PES SBC inauguration at IISc



3.c MEMBERSHIP GROWTH / RETENTION

In 2022, the chapter had 1900 members of whom about 300+ were professional members.

The chapter has actively participated in the IEEE Bangalore chapter's initiative for Senior Member Elevation. The chapter has prominently promoted and endorsed IEEE at every major technical and student chapter event to attract undergraduate students as well as experienced engineering professionals.

4 CHAPTER OPERATIONS

4.a CHAPTER WEB PAGE

IEEE PES Bangalore has an active web page, which is continuously updated under the guidance of one of the ExeCom members.

<https://r10.ieee.org/bangalore-pes/>

4.b COMMUNICATION

The Chapter extensively uses the IEEE Voluntary tools for the communication. Events and eNotice are regularly used. WebEx calls are used to enable members who cannot join F2F meetings and to setup tele conferencing for quick meetings. IEEE drive is used for sharing artifacts and as repository.

4.c PES ONLY (non-joint) CHAPTER

Bangalore Chapter with nearly 300+ members is a PES only chapter and falls under large chapter category.

5 OTHER ACTIVITIES

IEEE PES Bangalore Chapter has supported PES student chapter on various technical events and financial support to conduct the PES events at their respective colleges.

Submitted on behalf of IEEE PES Bangalore Chapter by:

Mr. Chandrasekhar Reddy Atla

Chair (2023) : IEEE PES Bangalore Chapter

Phone : +91 9538888810

Email : sekhar.atla@ieee.org