





2025 IEEE PES Awards Gala

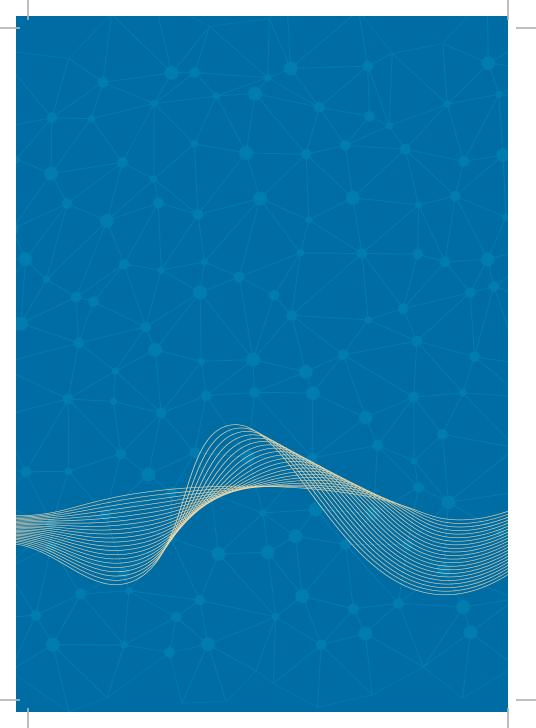


Table of Contents

Thank You To Our Donors
Team Awards
IEEE Herman Halperin Electric Transmission and Distribution Award
IEEE Nikola Tesla Award
IEEE PES CSEE Yu-Hsiu Ku Electrical Engineering Award
IEEE PES Award for Excellence in Power Distribution Engineering
IEEE PES Charles Concordia Power Systems Engineering Award
IEEE PES Cyril Veinott Electromechanical Energy Conversion Award
IEEE PES Douglas M. Staszesky Distribution Automation Award
IEEE PES/IAS A. P. Seethapathy Rural Electrification Excellence Award
IEEE PES Leadership in Power Award
IEEE PES Lifetime Achievement Award
IEEE PES Nari Hingorani Custom Power Award
IEEE PES Nari Hingorani FACTS Award
IEEE PES Peter W. Sauer Outstanding Power Engineering Educator Award—Graduate 18
IEEE PES Peter W. Sauer Outstanding Power Engineering Educator Award—Undergraduate 19 $$
IEEE PES Outstanding Young Engineer Award
IEEE PES Patrick P. Ryan Meritorious Service Award
IEEE PES Prabha S. Kundur Power System Dynamics and Control Award
IEEE PES Ramakumar Family Renewable Energy Excellence Award
IEEE PES Robert Noberini Distinguished Contributions to Power
Engineering Professionalism Award
IEEE PES Roy Billinton Power System Reliability Award
IEEE PES Uno Lamm High Voltage Direct Current Award
IEEE PES Wanda Reder Pioneer in Power Award
IEEE PES Fellows Recognition
Awards Committee Recognition

- PES Awards Committee
- Individual Awards Review Committees



Many of our recipients have donated their honoraria to the IEEE PES Endowment Fund, IEEE PES Scholarship Plus Fund, or one of our many other funds solicited and managed by the IEEE Foundation

We Offer Our Profound Gratitude to These Award Recipients For Their Generosity and Support

Foundation

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Team Awards

IEEE PES Prize Paper Awards

Recognizes the top two transaction papers of the IEEE Power & Energy Society, published within the past three years.

Paper: "A Review of Public Safety Power Shutoffs (PSPS) for Wildfire Mitigation: Policies, Practices, Models and Data Sources"

Authors: Can Huang, Qinran Hu, Linwei Sang, Donald D. Lucas, Robin Wong, Bin Wang, Wanshi Hong, Mengqi Yao, and Vaibhav Donde

Publication Data: IEEE Transactions on Energy Markets, Policy and Regulation, vol. 1, no. 3, pp. 187–197, Sept. 2023

Paper: "Methods for Analysis and Quantification of Power System Resilience"

Authors: Aleksandar M. Stanković, Kevin L. Tomsovic, Fabrizio De Caro, Martin Braun, Joe H. Chow, Ninel Čukalevski, Ian Dobson, Joseph Eto, Blair Fink, Christian Hachmann, David Hill, Chuanyi Ji, James A. Kavicky, Victor Levi, Chen-Ching Liu, Lamine Mili, Rodrigo Moreno, Mathaios Panteli, Frederic D. Petit, Giovanni Sansavini, Chanan Singh, Anurag K. Srivastava, Kai Strunz, Hongbo Sun, Yin Xu, and Shijia Zhao

Publication Data: IEEE Transactions on Power Systems, vol. 38, no. 5, pp. 4774–4786, Sept. 2023

IEEE PES Working Group Recognition Awards

Recognizes the top two Working Groups of the IEEE Power & Energy Society, with published works within the past three years. They must be a new work or a significant revision of an existing document (consideration should be given to the significance and relevance of the work to the power and energy community).

Outstanding Standard or Guide: PES-TR113, Simulation methods, models, and analysis techniques to represent the behavior of bulk power systems connected to inverter-based resources

Prepared by the:

IEEE PES Power System Dynamic Performance Committee

Published: Sept 2023

Chair: Antonello MontiVice-Chair: Ryan Quint

· Secretary: Deepak Ramasubramanian

 Contributors: Ahda Pavani, Alexandra Cameron Karpilow, Ali Mehrizi-Sani, Alvaro Ortega Manjavacas, Amar Ramapuram, Anderson Hoke, Antonello Monti, Babak Badrzadeh, Costas Vournas, Deepak Ramasubramanian, Federico Milano, Giovanni De Carne, Graham Dudgeon, Ilhan Kocar, Joe Chow, Jose Daniel Lara, Juan Sanchez-Gasca, Koji Yamashita, Lingling Fan, Mariko Shirazi, Mario Paolone, Nilesh Modi, Pouyan Pourbeik, Renan Furlaneto, Rodrigo Henriquez-Auba, Ryan Quint, Shruti Dwarkanath Rao, Shuan Dong, Siby Jose Plathottam, and Xiaoyu Wang.

Outstanding Technical Report: IEEE 1686, IEEE Standard for Intelligent Electronic Devices Cybersecurity Capabilities

Developed by the: IEEE PES Power System Communications and Cybersecurity Committee Standards Board Approval: 8 Nov 2022

· Chair: Marc Lacroix

· Vice Chair: Eric Thibodeau

 WG Members: Jay Anderson, Arijit Kumar Bose, Mike Dood, Herb Falk, James Formea, Steffen Fries, Didier Giarratano, Shane Haveron, Dennis Holstein, Mario Jardim, Anthony Johnson, Steven Kunsman, Jason Lombardo, Johan Malmstrom, Steve Mark, Aaron Martin, Ryan Newell, Craig Preuss, Harsh Vardhan, and Nathan Wallace.

IEEE PES Frank Lambert Outstanding Chapter Awards

Large Chapter Winner: Seattle Chapter

Chair: Max Emrick

Vice Chair: Tarik WahidiSecretary: Xichen Jiang

· Treasurer: Rich Meier

· Region Representative: Slaven Kincic

Runner Up Chapters: Kolkata & Nanjing Chapters

Medium Chapter Winner: Malaysia Chapter

Chair: Nur Ashida Salim

Vice Chair: Miszaina OsmanSecretary: Zuhaila Mat Yasin

• Treasurer: Norhafiz Azis

· Region Representative: Canbing Li

Runner Up Chapters: Kerala & Sweden Chapters

Small Chapter Winner: Northeast Brazil Chapter

· Chair: Matheus Pereira Gomes

· Vice Chair: Huilman Sanca Sanca

· Secretary & Treasurer: Danielle Delgado

• Region Representative: Guadalupe Gonzalez

Runner Up Chapter: Hungary Chapter

IEEE Herman Halperin Electric Transmission and Distribution Award



2025 Award Recipient

Bruce F. Wollenberg

For contributions to operations, computing, and control of power systems

Bruce Wollenberg has made seminal contributions that bridge theory and practice across multiple domains of power engineering. His research has consistently addressed pressing issues in power engineering, often anticipating and shaping future trends. His groundbreaking work on mechanism design for power markets in deregulated systems laid the foundation for ongoing research in game theory applications for power grids. Wollenberg also co-authored an influential research paper on smart grids, catalyzing interdisciplinary collaboration in this emerging field. His insights on power system reliability and blackouts continue to be highly relevant. Throughout his career, Wollenberg has demonstrated an exceptional ability to identify and advance critical areas of power engineering, leaving a lasting impact on both academia and industry.

An IEEE Life Fellow, Wollenberg is Professor Emeritus, Department of Electrical and Computer Engineering, University of Minnesota, Minnesota, Minnesota, USA.

IEEE Nikola Tesla Award



2025 Award Recipient

Scott D. Sudhoff

For contributions to the analysis and design of electric machinery and power electronic systems

Scott Sudhoff has made significant contributions to electromagnetic and electromechanical component modeling, particularly in addressing saturation and high-frequency dynamics while maintaining tractability. His approach improves upon earlier work by legends in the field, offering a more comprehensive and easily characterizable solution. The model structure he developed applies to both synchronous and induction machines, using arbitrary-order transfer functions for rotor electrical dynamics alongside saturating magnetizing paths. This method is accurate, computationally efficient, and straightforward to characterize. It has become the default model in popular simulation tools and has been applied to explore widebandwidth modeling of drives in various power electronic systems, including DC microgrids used in ships, aircraft, and ground vehicles.

An IEEE Fellow, Sudhoff is the Michael and Katherine Birck Distinguished Professor, Elmore Family School of Electrical and Computer Engineering, Purdue University, West Lafayette, Indiana, USA.

IEEE PES CSEE Yu-Hsiu Ku Electrical Engineering Award



2025 Award Recipient

Daozhi Xia

For contributions and achievements in power systems stability analysis, power systems control methods, and harmonics power flow theory

Daozhi Xia (born in January 1934, Taizhou, Jiangsu Province, China) earned his Bachelor's degree in Electrical Engineering from Nanjing Institute of Technology in 1953. Then, he began his distinguished academic career at Jiaotong University. In 1958, he participated in the historic relocation of the institution to Xi'an, where he became a founding faculty member of the School of Electrical Engineering, Xi'an Jiaotong University. From 1980–1982, he was a visiting scholar at Purdue University (1980–1982).

In 1986, he became a full professor and a doctoral supervisor before serving as the Deputy Director of the Electrical Engineering Department. Professor Xia pioneered the field of harmonic power flow analysis and authored the authoritative monograph of "Harmonic Analysis and Filtering of HVDC Transmission Systems". He also served as principal editor of two influential textbooks: "Power System Analysis (Volume II)" for graduate students and "Power System Analysis" for undergraduates, which became standard references in their respective fields. During his whole career, Professor Xia mentored 13 doctoral and 32 master students, cultivating a generation of power system experts.

IEEE PES Award for Excellence in Power Distribution Engineering



2025 Award Recipient
Curtis Wayne Carr

For sustained contributions to the advancement of innovative engineering tools for electric power distribution system analysis

Wayne Carr began his career in Jan of 1970 at Houston Lighting and Power after graduating from The University of Texas in Austin with a BSEE degree. In 1974 he accepted the Staff Engineer position at Erath County Electric Cooperative. In 1980 he went to work as a consulting engineer for Milford Engineering. In 1989 he founded Milsoft Utility Solutions, Inc; and now serves as Chairman of the Board.

Milsoft provides Engineering and Operations software to over 900 electrical distribution utilities. From its founding Mr. Carr has led Milsoft in the development of easy-to-use powerful software for the purpose of helping Distribution Engineers and Utility staff to efficiently accomplish their engineering and operation duties.

Mr. Carr has been on the managing committee of the IEEE Rural Electric Power Conference since 1980, serving twice as its annual conference chairman. In 2012 he received the A. P. Seethapathy Rural Electrification Excellence Award. Mr. Carr has authored and co-authored eight IEEE Transaction and Conference papers.

IEEE PES Charles Concordia Power Systems Engineering Award



Ali AburFor contributions to power system

state and network model estimation

Ali Abur is a Professor in the Department of Electrical and Computer Engineering at Northeastern University, Boston. He obtained his B.S. degree from Orta Dogu Teknik Universities, Ankara, Turkey, and his M.S. and Ph.D. degrees from Ohio State University. After receiving his PhD degree, he joined Texas A&M University and worked as a Professor in the Electrical Engineering Department. From December 2005 to 2013, he served as a Professor and Chair of the Electrical and Computer Engineering Department at Northeastern University.

His research and educational activities were in the areas of electric power systems modeling, state estimation, fault location, and electromagnetic transients modeling and simulations. He was the Associate Editor for IEEE Transactions on Power Systems between 1999–2011 and also served as a guest editor for special issues. He was elected an IEEE Fellow for his work on power system state estimation in 2003. He is a member of the U.S. National Academy of Engineering. He published the book "Power System State Estimation" with his co-author in 2004.

IEEE PES Cyril Veinott Electromechanical Energy Conversion Award



2025 Award Recipient

Mohammad Nasir Uddin

For contributions to the development and application of control techniques for AC motor drives

M. Nasir Uddin received the B.Sc. and M. Sc. degrees both in electrical & electronic engineering from Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh, and the Ph.D. degree in electrical engineering from Memorial University of Newfoundland, Canada in 1993, 1996, and 2000, respectively. He has been serving as a Professor in the Department of Electrical Engineering, Lakehead University (LU), Thunder Bay, ON, Canada since August 2001. He also served as a visiting Professor at the University of Malaya (2011–2013) and UNITEN (2018–2019), Malaysia; Tokyo University of Science(2010), Japan; Bangladesh, University of South Alabama (2001), USA; North South University (2006), and BUET (1994–1997), Bangladesh. He possesses more than 28 years of teaching experience and has authored/coauthored over 285 papers in international journals and conferences.

Currently, he is serving as a member of the IEEE Transportation Technologies Award Committee (2023–2026). He served as Advanced Controls Working Group Chair, IEEE PES Motor Subcommittee (2005–2010) and IEEE-IAS for 11 years in different capacities including IAS Executive Board member. He was bestowed upon with the Lakehead University Distinguished Instructor award (2023) and the Lakehead University Distinguished Researcher Award (2010).

IEEE PES Douglas M. Staszesky Distribution Automation Award



Joydeep Mitra
For contributions to reliability, protection, and control of microgrids and active distribution systems

Joydeep Mitra is MSU Foundation Professor of Electrical Engineering at Michigan State University, East Lansing, Director of the Energy Reliability & Security (ERiSe) Laboratory, and Senior Faculty Associate at the Institute of Public Utilities. He also holds an honorary position with Sandia National Laboratories as Distinguished Visiting Scientist.

Professor Mitra is known for his contributions to power system reliability analysis and reliability-based planning. For over 20 years, he has contributed to the advancement of electric distribution system reliability through his work on reliability-driven design, control, and protection of civilian and military microgrids. He has over 250 publications and patents in the power systems area; he is co-author of the book, "Electric Power Grid Reliability Evaluation: Models and Methods," and of IEEE Standard 762, a standard on reliability reporting.

He is serving on the IEEE Press Editorial Board. In the past he has served as Chair of several IEEE-PES Committees and Subcommittees, and on the Editorial Boards of several IEEE journals. He is an IEEE Fellow and an IEEE PES Distinguished Lecturer.

IEEE PES/IAS A.P. Seethapathy Rural Electrification Excellence Award



2025 Award Recipient

Manish R. Murudkar

For technical leadership and contribution to engineering advances that create resilient rural electric grids nationwide through clean energy initiatives

Manish is a visionary technology leader and accomplished power systems engineer with over 25 years of service at Cobb EMC, a Georgia-based electric cooperative serving more than 200,000 members. As Director of Distributed Energy Resources Strategy, he leads initiatives that advance clean energy technologies such as renewables, battery storage, microgrids, smart homes, and electric vehicles. Manish has played a key role in developing and executing strategic technology roadmaps that enhance grid security, reliability, and sustainability. Under his leadership, Cobb EMC has achieved best-in-class service reliability while maintaining low energy rates. He has implemented advanced operational technologies like GIS, AMI, OMS, and SCADA, resulting in improved efficiency and significant cost savings.

Dedicated to safety, Manish ensures compliance with industry standards and has strengthened the safety of battery storage systems. He is known for his collaborative leadership style, commitment to team development, and focus on continuous learning. An active community advocate, he supports STEM education and promotes energy awareness. His work exemplifies a commitment to innovation, safety, and delivering clean, reliable, and affordable energy to cooperative members.

IEEE PES Leadership in Power Award



2025 Award Recipient
Luiz Barroso

For leadership in power and energy systems through research, policy, markets and regulatory contributions

Luiz Barroso's career bridges industry, government, academia and research. He is the CEO of PSR, a global provider of analytical tools and energy consultancy; was the president of Brazil's Energy Planning Agency (EPE); is an affiliated researcher at Spain's Institute for Research in Technology (IIT); and a lecturer at the Florence School of Regulation (FSR), in Italy.

He is a long-time contributor to the IEEE PES: he chaired the Power System Operations, Planning and Economics (PSOPE) Committee and served on editorial boards of leading IEEE journals. Luiz has co-authored numerous IEEE publications and is widely respected for his mentorship, collaborative spirit, and leadership.

Luiz has led transformative initiatives in energy market design, regulation, and planning. He is well known for his ability to communicate complex concepts to diverse audiences and for aligning technical excellence with stakeholder needs, developing effective solutions to real-world challenges based on advanced analytical methodologies. These contributions have helped disseminate solid, engineering-based approaches across the global energy sector. He holds a PhD in Engineering and is an IEEE Fellow.

IEEE PES Lifetime Achievement Award



2025 Award Recipient

Anjan Bose

For sustained pioneering contributions to automation and control of power grid operations, training, and education

Anjan Bose is a Regents Professor and the Distinguished Professor of Electric Power Engineering at Washington State University in Pullman, Washington, where he also served as the Dean of the College of Engineering & Architecture from 1998 to 2005. In 2012–13 he served as a Senior Advisor to the US Department of Energy on the electric power grid during the Obama Administration. He is a leading researcher on the operation and control of the electric power grid.

Dr. Bose is a Member of the US National Academy of Engineering and a Foreign Member of both the Indian and the Chinese National Academies of Engineering. He was the recipient of the Outstanding Power Engineering Educator Award, the Third Millenium Medal, and the Herman Halperin Electric Transmission & Distribution Award from the IEEE. He was also awarded the Philip Sporn Award and the CIGRE Medal from CIGRE. He has been recognized by both Iowa State University and the Indian Institute of Technology with their distinguished alumnus awards.

IEEE PES Nari Hingorani Custom Power Award



2025 Award Recipient Juan Carlos Balda

power testing capabilities

For contributions to the design and prototyping of power converters based on silicon carbide semiconductors and to the development of high-

Juan Carlos Balda (IEEE M'78 SM'94 LM'22) received his B.Sc. in Electrical Engineering from the Universidad Nacional del Sur (Argentina) in 1979 and his Ph.D. degree in Electrical Engineering from the University of Natal (South Africa) in 1986. He spent two years as a visiting Assistant Professor at Clemson University, South Carolina. He was with the University of Arkansas at Fayetteville (UAF) from July 1989 until retiring in July 2023 as University Professor and Department Head Emeritus. At UAF, he was associate director of the National Center for Reliable Electric Power Transmission (NCREPT) and a member of the NSF IUCRC Grid-connected Advanced Power Electronic Systems and NSF ERC Power Optimization of Electro-Thermal Systems. His main research interests are Electric Power Distribution Systems, Power Electronics, and Electric Power Quality.

He is a member of the IEEE Power Electronics and Power & Energy Societies, and the honor societies Eta Kappa Nu and Tau Beta Pi. He was the chair of IEEE PELS TC5 committee and faculty advisor to the local chapter of the IEEE Power Electronics Society.

IEEE PES Nari Hingorani FACTS Award



Xiao-Ping ZhangFor contributions to modeling and design of FACTS controllers in AC and DC transmission systems

Professor Xiao-Ping Zhang is Co-Director of the Birmingham Energy Institute. He is a Fellow of the IEEE "for contributions to modeling and control of high-voltage DC and AC transmission systems", a Fellow of IET and a foreign Fellow of CSEE. He received his PhD degree from Southeast University, Nanjing in 1993.

Professor Zhang is the co-author of several books, including Flexible AC Transmission Systems: Modeling and Control (Springer, 2006 and 2012) and its translated Chinese edition. He has been a Distinguished Lecturer for the IEEE Power & Energy Society (PES) on HVDC, FACTS, and renewable energy generation. He currently serves as Senior Editor of the IEEE Open Access Journal of Power and Energy.

Professor Zhang served on the Expert Advisory Group for the UK Government's Offshore Transmission Network Review between 2020 and 2023 and contributed to two reports for UK Government's Science Office. His research spans modeling and control of HVDC, FACTS, Wind Generation and low frequency transmission; electricity market modeling; power system planning; Energy Quality; Energy Union and Global Electricity Grid.

IEEE PES Peter W. Sauer Outstanding Power Engineering Educator Award – Graduate



2025 Award Recipient

Mladen Kezunovic

For innovations in protective relaying education

Dr. Mladen Kezunovic (Life Fellow, IEEE) received the B.Sc., M.Sc., and Ph.D. degrees in electrical engineering in 1974, 1977, and 1980, respectively. He has been with Texas A&M University since 1986, where he is the University Distinguished Professor, Regents Professor, Eugene E. Webb Professor, and Site Director of the "Power Engineering Research Center" consortium. His expertise is in Protective Relaying, Automated Power System Disturbance Analysis, Computational Intelligence, Data Analytics, and Smart Grids. He has published 640 papers, completed over 70 Research Reports, written 12 books and book chapters, and given over 200 invited lectures, seminars, invited lectures and short courses. Over time, he advised over 60 graduate students, 30 international PostDocs and Visiting Researchers, and initiated three major IEEE conferences on digital simulators in 1995, electric vehicles in 2012, and synchrophasors in 2019.

As the President and CEO of XpertPower Associates, a consulting firm specializing in power systems data analytics, he consulted for 80 companies worldwide. Dr. Kezunovic is a recipient of the inaugural IEEE Educational Activities Board Standards Education Award. He has been active in CIGRE since 1980 and is a CIGRE Fellow, Honorary and Distinguished Member, and a Registered Professional Engineer in Texas. Dr. Kezunovic is a member of the US National Academy of Engineering and received the CIGRE Medal for lifetime achievements in 2024.

IEEE PES Peter W. Sauer Outstanding Power Engineering Educator Award—Undergraduate



2025 Award Recipient

Anurag K. Srivastava

For contributions to education and mentoring in power systems resiliency

Dr. Srivastava holds the Raymond J. Lane Professorship and serves as Chairperson of the Computer Science and Electrical Engineering Department at West Virginia University. Additionally, he is an adjunct professor at Washington State University and a senior scientist at the Pacific Northwest National Lab. He earned his Ph.D. in electrical engineering from the Illinois Institute of Technology in 2005. Dr. Srivastava's research focuses on data-driven algorithms and tools for cyberresilient electric energy systems. His impactful research projects have resulted in the implementation of tools at utility control centers, supported by over \$66M in funding from entities such as the US Department of Energy, National Science Foundation, Siemens Corporate Research, Electric Power Research Institute, Schweitzer Engineering Lab, Power System Engineering Research Center, Office of Naval Research, and various National Labs.

Over the years, he has held visiting positions at organizations including Réseau de Transport d'Électricité in France, RWTH Aachen University in Germany, PEAK Reliability Coordinator, Idaho National Laboratory, PJM Interconnection, Schweitzer Engineering Lab (SEL), GE Grid Solutions, Massachusetts Institute of Technology, and Mississippi State University. He is an IEEE Fellow, and leads multiple IEEE technical subcommittee, WGs (Power System Operation, Resiliency, Microgrid, voltage stability, distributed optimization). He has mentored more than 60 graduate students, 50 undergraduate researchers, and 25 post-doctoral fellows. Dr. Srivastava has co-authored over 400 technical publications, 3 books, and 3 patents.

IEEE PES Outstanding Young Engineer Award



2025 Award Recipient

Yi Wang

For contributions to data analytics and forecasting in smart distribution grids

Dr. Yi Wang is currently an Assistant Professor at The University of Hong Kong. He received a Bachelor's degree from Huazhong University of Science and Technology in 2014 and a Ph.D. degree from Tsinghua University in 2019. He was a Visiting Student at the University of Washington and a Postdoctoral Researcher at ETH Zurich.

His research interests include smart meter data analytics, energy forecasting, and multi-energy systems. He has published more than 70 papers in leading journals, including Nature Communications, Proceedings of the IEEE, and IEEE Transactions. His research has been funded by NSFC, RGC Hong Kong, Alibaba, State Grid of China, etc.

He is serving as the Chair of the IEEE Task Force on Data Sharing in Energy Systems, the Vice-chair of the IEEE Working Group on Energy Forecasting and Analytics, and the Secretary of the IEEE Customer Systems & Smart Buildings Subcommittee. He is the recipient of the IEEE PES Outstanding Young Engineer Award, IEEE TSG Outstanding Associate Editor, IEEE TSG Best Paper Award, Ralph Lee Prize Paper Award, IIF-SAS Award, etc.

IEEE PES Patrick P. Ryan Meritorious Service Award



2025 Award Recipient

Meliha Selak

For contributions and leadership in global technical and educational activities and membership growth of PES in Chapters, Governing Board, Technical Committees, and Distinguished Lecturer Program

Meliha Selak's dedication to IEEE PES has left a mark on the professional community and inspired countless students and women in engineering to pursue careers in power and energy. This commitment expanded during her tenure on the PES Governing Board as Vice President for Chapters. Overseeing chapters across all IEEE regions, she transformed the Chapters organization into a global hub for collaboration, professional development, and technical knowledge sharing.

She prioritized chapter chair training, holding annual events worldwide. As a PES Distinguished Lecturer, Meliha has traveled the globe, sharing her knowledge on power system modeling, simulations, and effective protection solutions for distributed generation. Her technical expertise also contributed to the IEEE PES Power System Relaying and Control Committee. Throughout her career, Meliha's dedication to IEEE PES has gone far beyond her formal roles. She has been a mentor, a trailblazer, and an inspiration for those seeking to shape the future of power and energy systems. Her commitment to fostering the growth of young engineers and advocating for diversity in the profession will leave a legacy for generations to come.

IEEE PES Prabha S. Kundur Power System Dynamics and Control Award



2025 Award Recipient

Bikash C. Pal

For contribution to robust control and estimation of power systems

Professor Bikash Pal obtained PhD from Imperial College London, as Commonwealth Scholar. His research in power system stability and control is sponsored by power companies, UK and the European Research Council. He led three multi-university research consortia between UK China, and UK India. His research group received the 2016 Imperial President Award for Outstanding Research. His research outcome has been adopted by power companies. The United Nations has consulted him for solving technical problems in power transmission. He has mentored 150 master's and 30 PhD students at Imperial College London. He has co-authored 136 transactions papers and four books.

He is Fellow of IEEE, IET and The Royal Academy of Engineering (UK). He was Editor-in-Chief (EiC) of IEEE Transactions on Sustainable Energy (2012–17), IET Generation, Transmission and Distribution (2005–12) and IEEE PES Vice-President, Publications (2019–23). He was Mercator Professor in Germany, Otto Monsted Professor in Denmark, and Distinguished Visiting Professor at NCEPU and Tsinghua University. As IEEE PES Distinguished Lecturer, he has traveled to 52 countries and delivered more than 75 distinguished and keynotes in person.

IEEE PES Ramakumar Family Renewable Energy Excellence Award



2025 Award Recipient

Claudio Cañizares

For outstanding contributions to microgrid operation and control in the context of renewable energy systems integration and energy access for remote Indigenous communities

Dr. Claudio Cañizares is a University Professor, Hydro One Chair, and Executive Director of the Waterloo Institute for Sustainable Energy (WISE) at Waterloo, where he has been since 1993. His work on modeling, simulation, computation, stability, control, and optimization of power and energy systems is highly cited and recognized, particularly in the area of renewable energy sources integration in remote microgrids. He is the past Editor-in-Chief of the IEEE Transaction on Smart Grid and served on the IEEE Board of Directors and PES Governing Board as the IEEE Division VII Director (2022–2023).

He is a Fellow of the IEEE, Royal Society of Canada, Canadian Academy of Engineering, and Chinese Society for Electrical Engineering. Dr. Cañizares has received the 2017 IEEE PES Outstanding Educator Award and the 2016 IEEE Canada Electric Power Medal. He has also been the recipient of various other awards, recognitions, and leadership appointments from IEEE, PES, Waterloo, and Chinese universities.

IEEE PES Robert Noberini Distinguished Contributions to Power Engineering Professionalism Award



2025 Award Recipient

Clinton J. Andrews

For contributions and leadership to IEEE and PES professional activities in support of Energy Policy, Environmental Planning, Industrial Ecology, Sustainability, and Social Implications of Technology

Clinton J. Andrews directs the Center for Urban Policy Research at Rutgers University where he is a Distinguished Professor of Urban Planning and Policy Development. He was educated at Brown and MIT in engineering and planning, and he worked previously in the private sector and at Princeton University. He performs research on both the supply and demand sides of the energy sector. Energy supply research relates to power system resource planning, energy security, and distributed energy resources. Demand-side research focuses on human behavior in the built environment, adoption of technological innovations, and implications of these factors for energy demand.

His books include Humble Analysis: The Practice of Joint Fact-finding, Regulating Regional Power Systems, and Industrial Ecology and Global Change. He is a member of the American Institute of Certified Planners and a licensed Professional Engineer. Andrews is a member of the IEEE Power and Energy Society, a past member of the IEEE-USA Energy Policy Committee, and a past president of the IEEE Society on Social Implications of Technology. He is a Fellow of AAAS.

IEEE PES Roy Billinton Power System Reliability Award



2025 Award Recipient

Mahmoud Fotuhi-Firuzabad

For contributions to methods, algorithms, and solutions for assessment and enhancement of reliability, resilience, and operational efficiency of electric power delivery systems under uncertainty

Mahmoud Fotuhi-Firuzabad received the B.Sc. and M.Sc. Degrees in Electrical Engineering from Sharif University of Technology and University of Tehran in 1986 and 1989, and the M.Sc. and Ph.D. Degrees in Electrical Engineering from the University of Saskatchewan, Canada, in 1993 and 1997, respectively. Currently, he is a professor of the Electrical Engineering Department at Sharif University of Technology, Tehran, Iran. He was the president of Sharif University of Technology (2014–2021).

His contributions in the field include more than 700 papers, and supervising more than 130 masters theses and doctoral dissertations. These publications have been well recognized with more than 26,600 citations with an h-index of 85. He served as the Editor-In-Chief of the IEEE Power Engineering Letters from 2017 to 2022 and is currently as the Editor-in-Chief of the IEEE Transactions on Smart Grid. He is a Fellow of the World Academy of Sciences, an Associate Fellow of the Iran National Academy of Sciences, and a Fellow of IEEE.

IEEE PES Uno Lamm High Voltage Direct Current Award



2025 Award Recipient

Ying Jiang Häfner

For contributions and dedication to applications and advancements of voltage-sourced converters, enabling HVDC as a technology of choice for renewable integration and supporting global energy transition

Ying Jiang Häfner received her B. Sc. And M. Sc. Degrees in electrical engineering from Huazhong University of Science and Technology, China, respectively in 1984 and 1987. In 1998, she received her Ph. Ph.D. degree in electrical engineering from Royal Institute of Technology (KTH) of Sweden.

In 1998, she joined ABB Power System AB in Sweden and started working in the Department of System Development, where she has been responsible for the development of HVDC-Light system control. She was promoted to Specialist (2007), Senior Specialist (2010) and Senior Principal Engineer (2015). In 2020, thanks to her outstanding contribution, she was promoted to Corporate Executive Engineer and R&D (Research & Development) Fellow, which is the highest technical position in Hitachi Energy (former ABB Power System AB). She is the author/ co-author for more than 50 papers and holds more than 40 patent applications in the area of Voltage Source Converter (VSC) HVDC technology, which is a pivotal technique for decarbonizing the power grid. She has also been involved with different R&D projects outside the employer (Hitachi Power Grid), reviewing many CIGRE reports as well as IEC standard drafts. She is a volunteer reviewer for IEEE papers and many other international conference papers as well as journal papers.

IEEE PES Wanda Reder Pioneer in Power Award



2025 Award Recipient

Lingling Fan

For leadership in technical innovations of power grid stability analysis and dedicated services to IEEE PES publications and education

Dr. Lingling Fan is a professor at the University of South Florida. Prior to her academic career, she was with Midwest ISO as a transmission planning engineer (2001–2007). She received her bachelor's and master's degrees in electrical engineering (EE) from Southeast University (Nanjing China) in 1994 and 1997, respectively. In 2001, she received a Ph.D. degree in EE from West Virginia University. She is the founding co-chair of IEEE PES inverter-based resource (IBR) subsynchronous oscillations task force. She has authored three books on dynamic modeling of power grids, synchronous machines, and inverter-based resources.

Dr. Fan served as the Editor-in-Chief of IEEE Electrification Magazine from 2020 to 2024, and as Consulting Editor of IEEE transactions on Sustainable Energy from 2018 to 2020. She became an IEEE Fellow in 2022 for her contributions to stability analysis and control of inverterbased resources. In March 2024, she received Energy Systems Integration Group (ESIG) Excellent Award for her contributions to power system dynamics and system oscillations in IBR penetrated power grids.

IEEE PES Fellows Recognition

Julio Romero Agüero

for leadership in the development of methodologies for modernization of power distribution systems

Dionysios Aliprantis

for contributions to rotating electric machine modeling and distributed energy resources

Mike Barnes

for contributions to power electronic converter modeling for system studies

Jessica Bian

for contributions to bulk power system reliability improvement and advances in power flow

Hans Björklund

for leadership in the development of HVDC control and protection systems

Balarko Chaudhuri

for contributions to control and stability of AC-DC grid systems

Nagendra Srinivas Cherukupalli

for contributions to advancements in utility-scale solar power plants and rural energy technologies

Craig C. Colopy

for contributions to design, development, and application of single-phase 32-step voltage regulators

Robert A. Dent

for leadership in enriching the history of electric power industry and contributions to its technology

Chunxia Dou

for contributions to power system control and industrial applications

David Durocher

for technical leadership in electrical system reliability and personnel safety

Yong Fu

for contributions to computational optimization and parallel computing for power system operation

Kory W. Hedman

for contributions to topology control and leadership in applying risk management to power systems

C. Huntley

for contributions to telecommunication and timing systems in electric power utilities

Ho-Ching Iu

for contributions to nonlinear analysis of power electronics circuits and systems

Masoud Karimi Ghartemani

for contributions to synchronization, modeling and control of power electronic converters in dc/ac applications

Andrew Keane

for contributions to the integration of resources into energy distribution systems

Mustafa Kizilcay

for contributions to modeling and simulation of power system electromagnetic transients

Samir Kouro

for contributions to power converter topologies and control in energy transition

Debra Lew

for contributions to grid integration of wind and solar power

Zuyi Li

for contributions to functional microgrid design and microgrid cybersecurity analyses

Cheng-Tsung Liu

for contributions to next-generation high-efficiency synchronous reluctance motor designs

Slava Maslennikov

for contributions to reliable electric power systems monitoring and mitigation of natural and forced oscillations

Mohammad Masoum

for contributions to EV-charging considering power quality

James McDonald

for contributions to advance power engineering research and education

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for contributions to standards for stability and deployment of reactive power control technology

Sukumar Mishra

for contributions to microgrid control and smart charging technologies

Rana Mukerji

for leadership in the design and implementation of wholesale electricity markets

Nirmal Nair

for contributions towards secure renewables grid integration

Biplab Sikdar

for contributions to the security and privacy of the Internet-of-Things and cyber-physical systems

Kai Strunz

for contributions to multi-scale modeling and control of AC-DC power and energy systems

Ed TeNyenhuis

for technical leadership in transformer design, industry standards, and power transformer services

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for contributions to power system analysis with data uncertainty

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for contributions to the development of high-voltage DC grids

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for contributions in developing technology for static synchronous compensators

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for contributions to modeling and control of distributed alternative energy systems and battery storage management

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for contributions to algorithms and scheduling theory in sustainable computing

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for contributions to power system reliability

Amirnaser Yazdani

for contributions to the modeling, analysis, and control of powerelectronically interfaced distributed energy resources

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for contributions to modular power conversion in energy harvesting, lighting, and electrified transportation systems

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