

EPRI



TECHNOLOGY TRANSFER AWARDS

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2024 TECHNOLOGY TRANSFER AWARDS

These awards recognize the leaders and the innovators who have applied EPRI research to produce significant results.

The award winners have shown exceptional application of EPRI research and technology in solving a problem of size and significance, championing a technology both within their companies and across the industry, driving progress in the electricity sector, and providing meaningful benefits for their companies' stakeholders and for society.

The EPRI Technology Transfer Awards spotlight the value of collaborative research to the electricity sector and its customers. EPRI recognizes and applauds the hard work, commitment, and leadership demonstrated by these award winners to help make electricity more reliable, efficient, affordable, safe, and environmentally responsible.



ALABAMA POWER COMPANY

🏆 Alarm Management Philosophy Guide and Implementation

Ben Ayer, Robert Benton, Rhonda Brown, Grant Gilmer, Patrick Turner

🏆 Application of EVs2Scale eRoadMAP for EV Planning

Hasin Gandhakwala

🌟 Automation Index for Combined Cycle Unit

Brianna Byrd, Antonio Heard, Adam Pierce, Johny Weaver

🌟 Concrete Thermal Energy Storage Pilot

Robert Szymd

AMAZON

🏆 Application of EVs2Scale eRoadMAP for EV Planning

Sujit Mandal, Adam Raphael

AMEREN

🏆 Application of EVs2Scale eRoadMAP for EV Planning

Dan Laurent

🏆 Application of Grid Model Data Management

Emily Ax, Mike Daniels, Derek Darby, Robert Donley, Tyler Friedel, Moira Horton

🏆 Assessment of Aged Fiber-Reinforced Polymer (FRP) Composite Distribution Poles

August Platt

🏆 Energy Sector Bat Conservation Solutions

Kevin Atkins, Joel Budnik, Nancy Morgan

🏆 Resource Adequacy for a Decarbonized Future

Jeff Dodd, Matthew Michels, Mark J. Peters

AMERICAN ELECTRIC POWER

🏆 Application of Grid Model Data Management

Daniel Coleman, Brian Hatt, Anvesh Pendyala

🏆 Creation of Minimum Clearance Distances for Vegetation Management

Kevin Patton

🏆 Energy Sector Bat Conservation Solutions

Tim Lohner, Jon Magalski, John Van Hassel, Jeff Wilson

🌟 Long-Term Catalyst Assessment for CO, NO_x, and VOC

Jeffery Hofacre

🏆 Resource Adequacy for a Decarbonized Future

Mohamed Abukaram



ARIZONA PUBLIC SERVICE

🏆 Resource Adequacy for a Decarbonized Future

Brian Cole

ARKANSAS ELECTRIC

🏆 Resource Adequacy for a Decarbonized Future

Andrew Lachowsky

ASSOCIATED ELECTRIC

🏆 Resource Adequacy for a Decarbonized Future

Bill Alkier, Thaddaeus Moody

ATLANTIC CITY ELECTRIC

🏆 Development of Portable Radiated Emissions Measurement System II (PREMS II)

Ed J. Kaminski, Noah Linden, Anwar A. Noel

AUSTIN ENERGY

🏆 Application of EVs2Scale eRoadMAP for EV Planning

Cameron Freberg, Richard Genece

🏆 Resource Adequacy for a Decarbonized Future

Sathish Babu Chakka, Matt Russell

BRUCE POWER LIMITED PARTNERSHIP

🌟 Leveraging EPRI's Siting Guide for New Nuclear Development

Raza Azim, Andrew Brooks, Rob Dewar, Minnie Huang, Laura Kranenburg, Kalena Lair

CATERPILLAR

🏆 Application of EVs2Scale eRoadMAP for EV Planning

Rob Schueffner

CENTERPOINT ENERGY

🏆 Application of EVs2Scale eRoadMAP for EV Planning

Rina Harris, Chad Stine

🏆 Cybersecurity Decision Framework for Utility Scale Energy Storage Systems

Robert Bridges

CENTRAL HUDSON GAS & ELECTRIC CORP.

🏆 Development of EV Hotspotter Tool

William Brosnahan



CHINA NATIONAL NUCLEAR POWER COMPANY LTD.

Innovative Advances in Chemistry and Radiation Safety Realized through Remote Monitoring and Smart Chemistry Applications

Chen Guocai, Du Yuansheng, Gao Yun, He Liyuan, Hou Mingjun, Liu Gao Yong, Liu Huichun, Niu Zhaohui, Pan Zong Peng, Qiang Hao, Shi Weize, Su Kai, Sun Xueping, Tan Dongbin, Tao Hou, Wang Haiyue, Wang Xuchu, Wu Shenao, Yang Shunlong, Yu Yang, Zhou Jiangliang, Zhou Zhipeng

Optimization Study of Hydrostatic Test Requirements and Code Conversion Eliminates Burdensome 10-year Hydrostatic Test for Class 1 Boundary

Cai Jiafan, Chen Zhaoyu, Ge Liang, Huang Chao, Li Shiwei, Lin Jiankang, Shang Xianhe, Wang Jianjun, Yang Cheng, Zhang Fuhai

CONSOLIDATED EDISON

Application of EVs2Scale eRoadMAP for EV Planning

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Resource Adequacy for a Decarbonized Future

Howard Kosel, King Look

CONSTELLATION ENERGY

Phased-Array UT Inspection for Turbine Blades

Bill Campbell, Tim Ernst, Jeffrey K. Melvin, Steve Myers, Mike Salley

CONSTELLATION ENERGY GENERATION LLC

AI Applications Streamline NDE Data Analysis for Reactor Vessel Head Examinations, Reducing Inspection Times and Enhancing Reliability

Scott Kvasnicka, Jay Miller

Application of EPRI High-Energy Arcing Fault (HEAF) Methodology for Fire Risk Realism and Cost Savings

Robert Cavado, Suzanne Loyd

Supplemental Subsequent License Renewal Surveillance Capsule Installation to Support BWRVIP Integrated Surveillance Program Extension

Bryce Babarsky, Michelle Karasek, Jesse Lucas, Anthony Popolizio, Andrew Shank, David Williams

CONSUMERS ENERGY

Application of EVs2Scale eRoadMAP for EV Planning

Jeff Myrom

CPS ENERGY

Cybersecurity Decision Framework for Utility Scale Energy Storage Systems

Brandon Pixley

Development of Portable Radiated Emissions Measurement System II (PREMS II)

Brian Gutierrez, Tyler Petoskey

Resource Adequacy for a Decarbonized Future

Kenneth Bowen, Greg Lackey

DOMINION ENERGY

Battery Energy Storage Deployment Playbook

Ellen Jackson, Luis Rosa-Rivera, Gerald J. Warchol

Development of Portable Radiated Emissions Measurement System II (PREMS II)

Travis Turnbull, Luis Vega

DUKE ENERGY

Creation of Minimum Clearance Distances for Vegetation Management

Ron Adams, Jack Gardner, Luke Harper, Steven Whisenant

Development and Implementation of the Crud-Induced Power Shift (CIPS) Index for Optimized Core Designs

Stanley Hayes, Matt Rybenski, Richard Skowron

Resource Adequacy for a Decarbonized Future

Jack W. Armstrong, Brantley Tillis, Rhett Trease

Development of Circuit Breaker Risk Ranking Software

Joseph C. Clark PE, Eric Dickson, Mike Henry, Joe Huff, Mark Matthews, Ronald May, Timothy McNamara, Alpesh Patel

EDF ENERGY

Pioneering Aging Management for Neutron Absorbers Across Global Nuclear Plants

Ryan Sanderson, Chris Sharrock, Chris Veale

ENEL GREEN POWER

Wind Turbine Health Monitoring

Ricardo Crisostomo, José Manuel Orza García, Alessandro Matera, Jonatan Nuñez, Inigo Lopez Zubiri

ENERGY

Alarm Management Philosophy Guide and Implementation

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ENERGY OPERATIONS, INC.

AI Applications Streamline NDE Data Analysis for Reactor Vessel Head Examinations, Reducing Inspection Times and Enhancing Reliability

Randal McGaha

EVERGY

Resource Adequacy for a Decarbonized Future

Kayla Messamore

EVERSOURCE

Systems for Mitigating Manhole Explosions

Jen Hebsch, Aymen Lpizra, John Kingston, David Velez

EXELON

- 🏆 Application of EVs2Scale eRoadMAP for EV Planning
Cristina Botero, Christopher J. Budzynski

FIRST ENERGY CORPORATION

- 🏆 Alarm Management Philosophy Guide and Implementation
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- 🏆 Application of EVs2Scale eRoadMAP for EV Planning
Becca Harder
- 🏆 Creation of Minimum Clearance Distances for Vegetation Management
Mark Contat, Shawn Standish
- 🏆 Energy Sector Bat Conservation Solutions
Michele Dellinger, Joseph Lopatka, Auggie Ruggiero

GEORGIA POWER COMPANY

- 🌟 Flexible Solar PV Integration
David Ault
- 🏆 Alarm Management Philosophy Guide and Implementation
Jody Blasche, Frank Dolan, Allen Heape, Tomas Rodriguez, Charlie Williams
- 🏆 Application of Optimal Blackstart and System Restoration Tools
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- 🏆 Development of Portable Radiated Emissions Measurement System II (PREMS II)
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GREAT RIVER ENERGY

- 🏆 Application of EVs2Scale eRoadMAP for EV Planning
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HAWAIIAN ELECTRIC

- 🏆 Resource Adequacy for a Decarbonized Future
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HYDRO ONE NETWORKS INC.

- 🏆 Alarm Management Philosophy Guide and Implementation
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- 🏆 Development of EV Hotspotter Tool
Phoebe Chang

INDEPENDENT SYSTEM OPERATOR - NEW ENGLAND

- 🏆 Resource Adequacy for a Decarbonized Future
Steven Judd

JEA BUILDING COMMUNITY

- 🏆 Application of EVs2Scale eRoadMAP for EV Planning
JEA Electric Planning and Customer Experience Teams

KEPCO RESEARCH INSTITUTE

- 🌟 Advanced Gas Turbine Self-Maintenance Guidance
Jung Jinesung

KOREA EAST-WEST POWER CO., LTD.

- 🌟 Super 304H Steel Life Assessment Methodology
Gil-jae Lee

KOREA ELECTRIC POWER CORP.

- 🏆 Evaluation of Fault Location Technology for Underground Transmission
Chaekyun Jung, Eunbo Sim
- 🌟 Super 304H Steel Life Assessment Methodology
Han-sang Lee

KOREA HYDRO & NUCLEAR POWER CO., LTD.

- 🌟 Pioneering Aging Management for Neutron Absorbers Across Global Nuclear Plants
Beomgyu Kim, Donghee Lee, Kiyoung Kim, Kyungho Roh, Taehyeon Kim, Taehyung Na

KOREA MIDLAND POWER CO., LTD.

- 🌟 Super 304H Steel Life Assessment Methodology
Jung-tae Kim

KOREA WESTERN POWER CO., LTD.

- 🌟 Advanced Gas Turbine Self-Maintenance Guidance
Ohm Kyong-II, Heung Moon Ka, Sang Yong Lee, Jungsub Lim, Je Jung Mun

LG&E AND KU ENERGY LLC

- 🌟 Material Specifications for New Plant Design
Hamit Afiyet, Nathan Huster, Matt Sanders

LOS ANGELES DEPARTMENT OF WATER & POWER

- 🏆 Hollywood Reservoir Landholding Analysis
Helen Grace Olivares, Katherine Rubin, Maria Sison-Roces, Noe Gomez Romero, Chevo Serna, Meliana Tanzil, Michael Ventre, John Willett
- 🏆 Resource Adequacy for a Decarbonized Future
Jay Luther Lim
- 🏆 Zero-Emission Planning and Grid Assessment
Karl Agbayani, Kent Chan, Peter Liang, Yamen Nanne, Aung Win

LOWER COLORADO RIVER AUTHORITY

- 🏆 Resource Adequacy for a Decarbonized Future
Khalil Shalabi

MANITOBA HYDRO

- 🏆 Resource Adequacy for a Decarbonized Future
Kelly Hunter

MID CONTINENT INDEPENDENT SYSTEM OPERATOR

- 🏆 Resource Adequacy for a Decarbonized Future
Jordan Bakke, Armando Figueroa-Acevedo, Eric Rodriguez



MISSISSIPPI POWER COMPANY

- 🏆 Alarm Management Philosophy Guide and Implementation
Robert C. Dobbs Jr, James Evans

NATIONAL GRID

- 🏆 Application of EVs2Scale eRoadMAP for EV Planning
Brian Wilkie
- 🏆 Enhancing Power Transformer Fleet Management Analytics
Andrew Fieldsend-Roxborough, Ruth Hooton, Gordon Wilson

NAWAH ENERGY COMPANY

- 🔧 First International Application of Risk-Informed Programmatic Approach for Examination Requirements
Ali Al Shaiba, Amna Alyahyae, Gurunathan Ramaraj, Joseph Mergenthaler



NEW YORK INDEPENDENT SYSTEM OPERATOR

- 🏆 Resource Adequacy for a Decarbonized Future
Benjamin O'Rourke, Laura Popa

NEW YORK POWER AUTHORITY

- 🏆 Application of EVs2Scale eRoadMAP for EV Planning
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- 🏆 Creation of Minimum Clearance Distances for Vegetation Management
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Lewis Payne, Andrew Weinstock
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Greg Pedrick

NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION

- 🏆 Resource Adequacy for a Decarbonized Future
William A. Lamanna, John Moura, Mark Olson

NORTHEAST POWER COORDINATING COUNCIL

- 🏆 Resource Adequacy for a Decarbonized Future
Phil Fedora, Michael Lombardi

NTPC LIMITED

- 🔧 Enhanced Flexibility and AGC Control
Chandramouli Kasina, Ravindra Kumar, Vijay Porwal

NUCLEOELECTRICA ARGENTINA S.A.

- 🔧 Team Pioneers Underwater Welding Technology for Reactor Separator Repair, Achieving Major Cost Savings and Enhanced Plant Availability
Luciano de Barberis, Braian Desia, Juan Kortsarz, Rodrigo Meza, Hector Molina

OMAHA PUBLIC POWER DISTRICT

- 🏆 Application of EVs2Scale eRoadMAP for EV Planning
Greg Garst, Bridgett Petzoldt

PACIFIC GAS & ELECTRIC COMPANY

- 🏆 Application of EVs2Scale eRoadMAP for EV Planning
Lydia Krefta, Nick Morelli, Matthew Tolbirt

PJM INTERCONNECTION LLC

- 🏆 Resource Adequacy for a Decarbonized Future
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PLATTE RIVER POWER AUTHORITY

- 🏆 Application of EPRI DERM Specifications
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PORTLAND GENERAL ELECTRIC

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- 🏆 Application of EVs2Scale eRoadMAP for EV Planning
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PUBLIC SERVICE ENTERPRISE GROUP, INC.

- 🔧 Application of EPRI's Advanced Eddy Current NDE Technique Enhances Safety and Maintenance Efficiency for Safety-Related Heat Exchangers
Jim Melchionna

ROLLS-ROYCE SMR LIMITED

- 🔧 Advanced Consideration of Maintenance Requirements Reduces Design Rework and Helps Ensure Maintainability of Compact Plants
Rachel Bennett, Sam Parker

SACRAMENTO MUNICIPAL UTILITY DISTRICT

- 🏆 Application of EVs2Scale eRoadMAP for EV Planning
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- 🏆 Development of EV Hotspotter Tool
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SALT RIVER PROJECT

- 🔧 Best Practices in Fitness for Service
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- 🔧 Long-Term Catalyst Assessment for CO, NOx, and VOC
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SALT RIVER PROJECT AGRICULTURAL IMPROVEMENT AND POWER DISTRICT

- 🔧 Leveraging EPRI's Siting Guide for New Nuclear Development
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SAUDI ELECTRICITY COMPANY

- 🏆 Development of Hardware-in-the-Loop Test Platform
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SEATTLE CITY LIGHT

- 🏆 Application of EVs2Scale eRoadMAP for EV Planning
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SOUTHERN CALIFORNIA EDISON

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Brent Buffington

SOUTHERN COMPANY SERVICES, INC.

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Carl Jackson, Guy Palmer, Alex Waitkus
- 🌟 Flexible Solar PV Integration
Will Hobbs, Anita Pressley
- 🌟 Long-Term Catalyst Assessment for CO, NOx, and VOC
Randy Bullock, Landon Lunsford
- 🏆 Resource Adequacy for a Decarbonized Future
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SOUTHERN NUCLEAR OPERATING CO.

- 🌟 Pioneering Aging Management for Neutron Absorbers Across Global Nuclear Plants
Ernest Bates, Hannah Brock

SOUTHWEST POWER POOL, INC.

- 🏆 Resource Adequacy for a Decarbonized Future
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SHANDONG NUCLEAR POWER COMPANY LTD.

- 🌟 Application of Management Approaches and New Inspection Techniques to Mitigate Vibration Fatigue Failures in Small-bore Branch Piping
Liu Fei, Zhu Zhibin, Wang Hao, Yang Sixin, Zhang Xiaoyun, Cui Tao

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- 🏆 Testing Residential Heat Pumps to Improve Grid Resilience
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TUCSON ELECTRIC POWER

- 🌟 Digitalization of Wind and Solar Assets
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WEC ENERGY GROUP

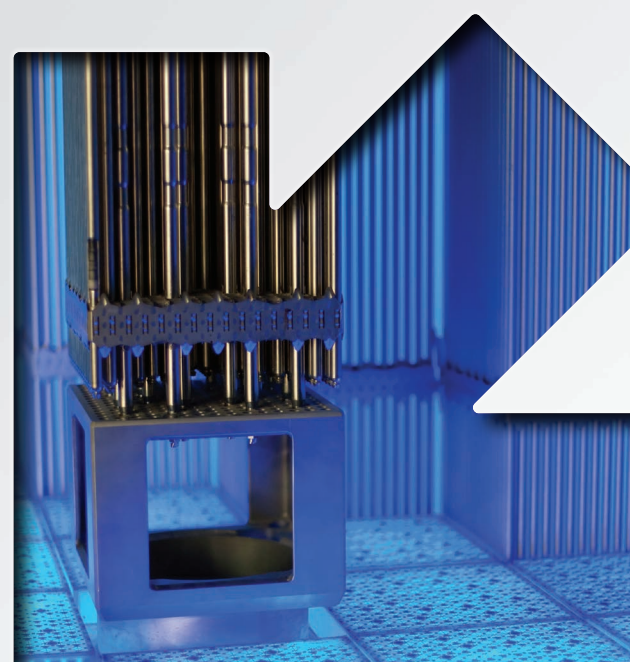
- 🏆 Assessment of Aged Fiber-Reinforced Polymer (FRP) Composite Distribution Poles
Jasmin Imsirovic
- 🌟 Digitalization of Wind and Solar Assets
Douglas Bishop, Cody Craig, Josh Knize, Craig Leroy

WOLF CREEK NUCLEAR OPERATING CORP.

- 🌟 Wolf Creek Implements Continuous Online Monitoring of Vertical Pump/Motor Sets Using EPRI's Failure Modes Approach
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XCEL ENERGY

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- 🏆 Application of EVs2Scale eRoadMAP for EV Planning
Beth Chacon, Francisco Munoz-Martin, Travis Whalen



About EPRI

Founded in 1972, EPRI is the world's preeminent independent, non-profit energy research and development organization, with offices around the world. EPRI's trusted experts collaborate with more than 450 companies in 45 countries, driving innovation to ensure the public has clean, safe, reliable, affordable, and equitable access to electricity across the globe. Together... shaping the future of energy.

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3420 Hillview Avenue, Palo Alto, California 94304-1338 • USA • 800.313.3774 • 650.855.2121 • askepri@epri.com • www.epri.com

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