

EPRI



TECHNOLOGY TRANSFER AWARDS

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2023 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

- 🏆 Ergonomic Tool for Moving Electric Utility Manhole Covers
Benjamin Cross, Chris Fitzgerald
- 🏆 Fleet Electrification Planning and Assessment for New Load
John W. Bowen

ALLIANT ENERGY

- 🏆 Monarch Butterfly Habitat Model and Landholding Assessment
Wendy Greene, Deborah Frosch

AMEREN

- 🏆 Monarch Butterfly Habitat Model and Landholding Assessment
Kevin Atkins, Jennifer Queen
- ⚙️ Utilities Benefit from Spent Fuel Pool Criticality Analysis Optimization and Improved Efficiency for Regulatory Review
Christopher John Ehmke

AMERICAN ELECTRIC POWER

- 🏆 Maintaining Grid Stability with Inverter Based Resources
Dr. Nishantha Ekneligoda, Robert J. O'Keefe

AMPRION

- 🏆 AC/DC Hybrid Line Ion Emissions and EMF Evaluation
Dr. Markus Franke, Alex Wollny

CENTRAL HUDSON GAS & ELECTRIC CORPORATION

- 🏆 Building Electrification Technologies for New York State
John Borchert

CHINA NATIONAL NUCLEAR POWER COMPANY, LTD.

- ⚙️ FORO Nuclear and CNNP/SNERDI Adopt EPRI's Guidelines for PWR Nuclear Safety to Support Long-Term Operations in Spain and China
Luan Xingfeng, Xu Feng, Zhao Chuanli

CHUBU ELECTRIC POWER COMPANY

- ⚙️ Chubu Validates and Applies EPRI PMBD Tool for Maintenance Strategy Optimization, Realizing Sizable Cost Savings
Naoki Hiramatsu, Shou Kawakami, Hiromasa Okuda, Yoshihiro Morimoto, Yasushi Wakayama

CNNC SANMEN NUCLEAR POWER COMPANY, LTD.

- ⚙️ CNNC Saves Millions with Methodical Analysis of Conservative Component Replacement Intervals
Chen Lunshou, Fan Fuping, Guan Yihao, Liu Yinxu, Lyu Yuanliang, Wang Zihu

CONSOLIDATED EDISON COMPANY OF NEW YORK

- 🏆 Building Electrification Technologies for New York State
Sarah Murphy, Shuchita Prakash, Terrell Skipper

- 🏆 Ergonomic Tool for Moving Electric Utility Manhole Covers
Brenda Hill, Prakash Kothari, Steve Labudzinski

- 🏆 Industrial Control Systems Automated Digital Forensics Harvester
Richard Alcalde, Serena Lee, Piotr Lisowski

- 🏆 Risk Framework to Develop New Transmission Ratings
Jade Wong

CONSTELLATION ENERGY GENERATION LLC

- ⚙️ Constellation's Industry-First Application of Non-welded Pipe Fittings Highlights Substantial Cost Saving Opportunity
Maher Kassar
- ⚙️ Utilities Benefit from Spent Fuel Pool Criticality Analysis Optimization and Improved Efficiency for Regulatory Review
Joe Bernhardt, Chukai Yin

CONSUMERS ENERGY

- 🏆 DER Network Gateways for Control Integration of Smart Inverters
Rosanna Kallio
- 🏆 Fleet Electrification Planning and Assessment for New Load
Matt Henry, Ian Meredith

COOPERATIVE ENERGY

- 🏆 Risk Framework to Develop New Transmission Ratings
Jason Goar

⚙️ GENERATION

⚙️ NUCLEAR

🏆 ENERGY DELIVERY & CUSTOMER SOLUTIONS



DAIRYLAND POWER COOPERATIVE

- ✱ Novel Application of Traveling Screens for Fish Protection
Benjamin D. Campbell, Brad Foss

DOMINION ENERGY, INC.

- ✱ Fleet Electrification Planning and Assessment for New Load
Zohreh Hosseini
- ✱ Utilities Benefit from Spent Fuel Pool Criticality Analysis Optimization and Improved Efficiency for Regulatory Review
Kasey Kennett

DTE ENERGY

- ✱ Mitigation of Yaw Issues in Wind Turbines to Improve Annual Energy Production
Shannon Baker, Matthew Beemer, Jake Carney

DUKE ENERGY

- ✱ Duke Energy Eliminates Condenser In-leakage with EPRI Guidance, Significantly Reducing Costs and Downtime
William Kerr
- ✱ Leadership in Exploring a New Groundwater Monitoring Approach
Bryan Thomas Moeller, Dee O'Brien, Ed Sullivan, John R. Toepfer
- ✱ Mitigating Distribution Impacts of High Photovoltaic Penetration
Kevin Chen, Staci Haggis, Trent Miller
- ✱ Risk Framework to Develop New Transmission Ratings
Prasad Yenumula

ÉLECTRICITÉ DE FRANCE

- ✱ DER Network Gateways for Control Integration of Smart Inverters
Quentin Morel

ENEL S.P.A.

- ✱ Creation of a Bifacial PV Performance Measurement Technique
Alessandro Incalza, Lorenzo Todaro

EVERGY

- ✱ DER Network Gateways for Control Integration of Smart Inverters
Julie Way

EXELON

- ✱ DER Network Gateways for Control Integration of Smart Inverters
Sean W. Carr (ComEd), Damel Goddard (BGE), Jeffrey W. Tisa
- ✱ Fleet Electrification Planning and Assessment for New Load
Christopher J. Budzynski (Exelon), Joe Long (PECO), Saul Morales (ACL), Oyekunle Oyedeji (BGE), Vincent Westfallen (ComEd), Qin Zhang (Pepco Holdings)
- ✱ RF Monitoring and Wind Mitigation in Fiber Optic Supply Cables
Jessie Bauer (ComEd), Ryan Kelly (ComEd)

FAYETTEVILLE PUBLIC UTILITIES

- ✱ Fleet Electrification Planning and Assessment for New Load
Nathan Taylor

FIRST NATIONAL OPERATION & MAINTENANCE COMPANY (NOMAC)

- ✱ In-Situ Rotor Lifespan Analysis Improves Precision Maintenance
Stefan Verlee

FIRSTENERGY

- ✱ IEC 61850 Digital Substation Technologies Implementation & Development
Eric Schock, Julie Sofaly

FLORIDA POWER & LIGHT

- ✱ Maintaining Grid Stability with Inverter Based Resources
Huzaifa Karimjee, Joe Ribeiro

FORO DE LA INDUSTRIA NUCLEAR ESPANO

- ✱ FORO Nuclear and CNNP/SNERDI Adopt EPRI's Guidelines for PWR Nuclear Safety to Support Long-Term Operations in Spain and China
Marta Baladia, Isabel Mach, Cosme Munoz

ICE

- ✱ Application of Transmission Asset Management Analytics Tools & Techniques
Christian Valerio Mena, Josué Daniel Hidalgo Quesada, Freddy Vargus Richmond



ISA

Application of Transmission Asset Management Analytics Tools & Techniques

Victor Diez, Ivan Javier Lozada, Leon Augusto Martinez, Nelson Javier Mesa Palacio, Juan Fernando Quintero, Cristian Yesid Urrea

ISO NEW ENGLAND

Maintaining Grid Stability with Inverter Based Resources

Xinghao Fang, Faheem Ibrahim, Xiaochuan Luo, Jason Ploof, Qiang "Frankie" Zhang

Systematic Approach to Determine Risk of Extreme Weather Conditions on Energy Adequacy

Stephen George, Ke Ma, Jinye Zhao

KERNKRAFTWERK LEIBSTADT AG

KKL Expands on EPRI's Seismic Fire and Flood Guidance to Address New Regulatory Requirements

Olivier Nusbaumer, Albena Stoyanova, Pavol Zvoncek

KOREA ELECTRIC POWER CORPORATION

DER Network Gateways for Control Integration of Smart Inverters

Seongsoo Cho, Inji Choi, Jongmin Jo, Yoojin Kwon, Nogil Myoung

KOREA MIDLAND POWER COMPANY

Independent GT24 Combustion Tuning Technical Basis Development

Jinwook Choi, Youngbok Han, Yongu Jang, Moonsoo Kim, Songkil Kwon, Seik Park, Junkyu Sung

LINCOLN ELECTRIC SYSTEM

Object Based Image Analysis Wetlands Identification Tool

Melissa Landis

LOS ANGELES DEPARTMENT OF WATER AND POWER

Fleet Electrification Planning and Assessment for New Load

Karl Agbayani, Vida Daneshmand, Peter Liang, Yamen Nanne

Voltage Conversion Assessment for Supporting Future Load

Kent Chan, Tomy Giang, Steven Lam, Peter Liang, Yamen Nanne, Vincent Zabukovec

NATIONAL GRID USA

Distribution Asset Condition Monitoring Technologies

James George, Jonathan Gonynor

NEW YORK INDEPENDENT SYSTEM OPERATOR, INC.

Building Electrification Technologies for New York State

Arthur Maniaci, Michael Swider

NEW YORK POWER AUTHORITY

Building Electrification Technologies for New York State

Alan Ettlinger, Guy Sliker

DER Network Gateways for Control Integration of Smart Inverters

James Weaver

IEC 61850 Digital Substation Technologies Implementation & Development

Frank Ronci, PE

Infrared Drones Reduce Risk and Cost in Air-Cooled Condenser Inspections

Yefim Kashler

Maintaining Grid Stability with Inverter Based Resources

Xia Jiang

Monarch Butterfly Habitat Model and Landholding Assessment

Cari D. Ficken, John Nolan, Lewis Payne

Underground Transmission High-pressure Fluid-filled Cable Systems Assessment

Sean Eagleton, Alan Ettlinger, Zhong "Kyle" Zheng



NORTH CAROLINA ELECTRIC MEMBERSHIP CORPORATION

- 🏆 DER Network Gateways for Control Integration of Smart Inverters
North Carolina's electric cooperatives

ONTARIO POWER GENERATION, INC.

- 🏆 Ontario Power Generation Uses EPRI Guidance for Proactive Assessment of Climate Change Challenges
Kelly Reid, Aditya Walke

PACIFIC GAS AND ELECTRIC COMPANY

- 🏆 Risk Framework to Develop New Transmission Ratings
Will Dong

PNM RESOURCES

- 🏆 Monarch Butterfly Habitat Model and Landholding Assessment
Mikaela Busher, Alaina Pershall

PORTLAND GENERAL ELECTRIC

- 🏆 Ergonomic Tool for Moving Electric Utility Manhole Covers
Ben Lumsden
- 🏆 Fleet Electrification Planning and Assessment for New Load
Aaron Banks, Andy Eiden, Jennifer Galaway

PUBLIC SERVICE ENTERPRISE GROUP, INC.

- 🏆 PSEG Applies EPRI Phased-Array Ultrasonic Testing Technique for Reactor Vessel Nozzle Inspections from Outside Surface
Michael Oliveri, Sam Speer, Gregory M. Suey, Mitchell Wygand

SACRAMENTO MUNICIPAL UTILITY DISTRICT

- 🏆 Monarch Butterfly Habitat Model and Landholding Assessment
Kathleen Ave

SALT RIVER PROJECT

- 🏆 DER Network Gateways for Control Integration of Smart Inverters
Juan Cardona
- 🏆 Long Duration Energy Storage Technology Evaluation and Procurement
Richard Anderson, Collin Friedrich, Chico Hunter, Tessa Murdock, Arvind Patel, Eric Robinson
- 🏆 Monarch Butterfly Habitat Model and Landholding Assessment
Chuck Paradzick
- 🏆 Risk Framework to Develop New Transmission Ratings
Bryce L. Priest

SANTEE COOPER

- 🏆 Multi-Technology Approach to Increase Fish Survivability
Jane Campbell, Louis A. Manigault II, William Stevick

SEATTLE CITY LIGHT

- 🏆 Fleet Electrification Planning and Assessment for New Load
Stefanie Johnson, Uzma Siddiqi, Angela Song
- 🏆 Value Framework for Building and Transportation Electrification for the City of Seattle
Mike Hamilton, Stefanie Johnson, Madeline Kostic, Irina Rasputnis

SHANDONG NUCLEAR POWER COMPANY LTD.

- 🏆 EPRI's Data Driven Decision Making Helps SNDPC Implement a Smart Corrective Action Program System for Improved Safety, Reduced Costs
Li Zhongzhe, Liu Fei, Lv Conglin, Wang Jiaqiang, Wu Fang, Xing Chao, Yan Dong, Yu Bingying

SHANGHAI NUCLEAR ENGINEERING RESEARCH & DESIGN INSTITUTE CO., LTD

- 🏆 FORO Nuclear and CNNP/SNERDI Adopt EPRI's Guidelines for PWR Nuclear Safety to Support Long-Term Operations in Spain and China
Meng Fanjiang, Shi Xiuqiang, Zhang Zhai

SOUTHERN CALIFORNIA EDISON

- 🏆 Fleet Electrification Planning and Assessment for New Load
Iliia Gueorguiev, Matthew Tonyan, Jun Wen, Le Xu



SOUTHERN COMPANY

- 🏆 DER Network Gateways for Control Integration of Smart Inverters
Andrew Ingram
- 🏆 Fleet Electrification Planning and Assessment for New Load
Thomas Canada
- 🏆 IEC 61850 Digital Substation Technologies Implementation & Development
Jonathan Doroh, Glenn Wilson
- 🏆 Potential System Impacts of Electric Vehicle Charging and Driving Behaviors
Shardul Modi, Brooke Williams
- 🏆 Underground Transmission High-pressure Fluid-filled Cable Systems Assessment
Katherine Giometti (Georgia Power Co.), Frank Li, Mark Smith, Andrew Wright (Georgia Power Co.)

STP NUCLEAR OPERATING COMPANY

- ⚙️ EPRI Helps STP Validate Innovative Ultrasonic Methods for PCCP Evaluation, Saving Significant Time and Resources
Richard A. Stark

SUNFLOWER ELECTRIC POWER CORPORATION

- ⚙️ Development of a Minimum Operating Temperature Framework for Thermal Plants
Mike Thompson

TAIWAN POWER COMPANY

- ⚙️ Corrosion Product Monitoring Optimization
Chu-Chi Chang, Chin-Lung Chen, Bi-Li Fu, Yen-Chin Lin, You-Lun Sie, Chih-Ming Tsao, Chun-Shian Wu, Jian-Ren Yu
- 🏆 Mitigating Distribution Impacts of High Photovoltaic Penetration
Kuan Hua Su, Chang Wen Chi
- ⚙️ Taipower Gains Exemption for Bottom-Mounted Nozzle Ultrasonic Test Based on EPRI MRP Research
Hsin-yu Chen, Ci Gao, Heng-Sheng Lin, Rong-Yi Lin

TENNESSEE VALLEY AUTHORITY

- 🏆 DER Network Gateways for Control Integration of Smart Inverters
Sam Delay
- 🏆 Fleet Electrification Planning and Assessment for New Load
Apsana Bhandari (KUB), Zack Cole, (KUB), Steven Coley, Drew Frye, Deryl Long (MTE), Ryan Stanton, Larry D. Taylor, PE (MTE)
- 🏆 Monarch Butterfly Habitat Model and Landholding Assessment
Suzanne Fisher, Hill Henry, Holly Grace Hoyle, Justin Huntman

TRANSENER

- 🏆 Application of Transmission Asset Management Analytics Tools & Techniques
Martin Acosta, Hugo Contreras, Ezequiel González, Mariano Gonzalez, Sergio Martinez, Ezequiel Niselewicz, Robert Schurman, Hernán Vanni

VATTENFALL-FORSMARKS KRAFTGRUPP AB

- ⚙️ Vattenfall Leverages EPRI Resources to Stymie History of Fuel Failures with an Improved Foreign Material Exclusion Program
Niklas Dahlberg

WEC ENERGY GROUP, INC.

- ⚙️ Hydrogen With Natural Gas Blending in a Grid-Connected Reciprocating Internal Combustion Engine
Todd Duffield, Scott Johnson, Dan Krueger, Paul Spicer

XCEL ENERGY SERVICES, INC.

- 🏆 Fleet Electrification Planning and Assessment for New Load
Francisco Munoz Martin, David Mino, Paul Vaynshen
- 🏆 Mitigating Distribution Impacts of High Photovoltaic Penetration
Beth Chacon, Matthew Hagen, Yashar Kenarangui, Jessica Lau



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, we are shaping the future of energy.

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