



Technology Transfer Awards 2012





EPRI's 2012 **Technology Transfer Awards** recognize the leaders and the innovators who have transferred research into applied results. The 2012 award winners have shown exceptional application of EPRI research and technology to solve a problem of size and significance, to champion a technology both within their companies and across the industry, to drive progress in the electricity sector, and to provide meaningful benefits for its stakeholders and for society.

The 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, more affordable, and more environmentally responsible.

ALABAMA POWER COMPANY

- Ford Escape PHEV Program ^P
Cedric Daniels

ALLIANT ENERGY

- Power Transformer and Circuit Breaker Fleet Management ^P
Ramona Baldyga

ALMARAZ-TRILLO NPPS

- Modeling of Zirconium Air Oxidation Kinetics in Spent Fuel Pools ^N
Juan Carlos Martínez-Murillo Méndez

AMEREN

- Development and Use of Environmentally-Assisted Fatigue Screening Process ^N
Michael G. Hoehn II, Kurt Linsenhardt, Sharon Merciel

AMERICAN ELECTRIC POWER

- Analysis of Water Withdrawal and Consumption in Texas ^E
Greg Carter, Gary Gibbs, Tim Lohner, Al Wood
- Assessment of the Propensity of Fly Ash to Static Liquefaction ^E
Pedro Amaya, Tom Webb
- EPRI Smart Grid Demonstration Initiative: Four Year Update ^P
Brian Schell
- Ford Escape PHEV Program ^P
Chris Schafer
- Leadership in Addressing Corrosion in Flue Gas Desulfurization (FGD) Systems ^G
Gregory J. Berg, Michael Crichton, Michael P. Finneran, Thomas Hart
- Modular Communication Interface Specification for Demand Response ^P
Amrit Khalsa
- Using the Solar Power Fact Book to Evaluate Potential Generation Capacity ^E
Claudia Banner

ATCO POWER LTD.

- Best Practices in Cycle Chemistry Management ^G
Kyle Armstrong

BKW FMB ENERGIE AG (KKM)

- Pioneering Technology in Switzerland for Visual Inspection ^N
Patrick Graedel

CENTERPOINT ENERGY

- High Temperature Connector Research for Transmission Capacity Increase ^P
Douglas Harms, Erich Schoennagel
- Recovery Transformer ^P
Bert Crego, Jack Heintschel, John Houston, Kenneth Jones

CENTRAL HUDSON GAS & ELECTRIC

- Portable Electronic Technology for Advanced Data Collection and Diagnostics ^P
Pano Harpolis, Sal Martino

CEZ, A.S.

- Use of EPRI Guidance to Enhance Safe Operation of CEZ Nuclear Power Plants ^N
Jan Barát, Pavel Konarik

CONSOLIDATED EDISON COMPANY OF NEW YORK

- EPRI Smart Grid Demonstration Initiative: Four Year Update ^P
John Giacona
- High Temperature Connector Research for Transmission Capacity Increase ^P
Sanjay Bose, Amitabha Mukhopadhyay
- Portable Electronic Technology for Advanced Data Collection and Diagnostics ^P
Rashal Mahamud, Dexter Newton, Paul Richardson
- Power Transformer and Circuit Breaker Fleet Management ^P
Anastasia O'Malley, Matt Walther

CONSTELLATION ENERGY NUCLEAR GROUP

- Development of Proactive Obsolescence Program Using EPRI Methodology ^N
Laura Farrell, Tim Rogers

CPS ENERGY

- Electric Transportation Systems, Infrastructure, and Utility Readiness ^P
Julia Jones

DOMINION RESOURCES, INC.

- Collaborative Benchmarking to Prevent Counterfeit and Fraudulent Items ^N
Thomas Stanton

DTE ENERGY, INC.

- Ford Escape PHEV Program ^P
Hawk Asgeirsson
- Use of Explosive Cleaning Methods to Mitigate Boiler Tube Damage ^G
Richard J. Lynch, Michael P. Mallon, Jonathan Stache

DUKE ENERGY

- Collaborative Benchmarking to Prevent Counterfeit and Fraudulent Items ^N
Randy German, Jim Grant, Bhavesh Patel
- Ford Escape PHEV Program ^P
Michael Waters
- Leadership in Addressing Corrosion in Flue Gas Desulfurization (FGD) Systems ^G
Edward C. Byers, Daniel J. Hartmann, Ronald Laws, Erich Loch
- Maximizing the Useful Life of Critical Hot Section Life Components ^G
Rajeev Aluru, Robert Aponte, Aaron M. Smith
- Model Validation Using Power Plant Parameter Derivation (PPPD) ^G
Daniel Fain, Gary L. Humphries, Randy A. Rhinier, Chris Schaeffer, P.E.

- Modular Communication Interface Specification for Demand Response ^P
Jessica Bishop, Michael Rowand
- Power Transformer and Circuit Breaker Fleet Management ^P
Christy Adams

ÉLECTRICITÉ DE FRANCE

- EPRI Smart Grid Demonstration Initiative: Four Year Update ^P
Carolina Tranchita

ENDESA GENERACIÓN (ENEL)

- Boiler Tube Failure Reduction Through Application of Outage Inspection Pocket Manuals ^G
Jesús de la Varga, José Lobato, Paulo Santos

ENTERGY

- DOE Integration of Southwest Power Pool Wind by Southeast Utilities ^P
Jim Lanning, Roger Mills

ERARING ENERGY

- Best Practices in Cycle Chemistry Management ^G
Natasha Agafonoff, Elise Ring, Mark Wyburn

ESB NETWORKS

- EPRI Smart Grid Demonstration Initiative: Four Year Update ^P
Teresa Fallon

EXELON CORPORATION

- Application of EPRI American Eel Information for Hydro Relicensing ^E
Kimberly Long
- Early Adoption of Advanced Chemistry Technologies ^N
Jamie Copfer, Al Creamean, Drew Kolste, Kenneth Lyons, Michael Martin, David Morey, Andrew Odell, William Reeher, David Rhoades
- OpenDSS ^P
Mike Born, Jim Crane, Rich Gordus, Mark Lukas, Kushal Singh

FIRSTENERGY

- EPRI Smart Grid Demonstration Initiative: Four Year Update ^P
Eva Gardow
- Power Transformer and Circuit Breaker Fleet Management ^P
David Bates

FIRSTENERGY NUCLEAR OPERATING COMPANY

- Application of Standardized Task Evaluations for Worker Qualification ^N
Tammie Nicoletti Bever, Dave Eldred, Robert Fundis, Paul Gant, Mike Kaminski, Archie Proffit, Tyrone Turner, John J. Zanetta

GEORGIA POWER COMPANY

- 4 kV Electric Boiler Application ^P
Ed C. Harmon
- Ford Escape PHEV Program ^P
Ben Echols

HYDRO-QUEBEC

- Ford Escape PHEV Program ^P
Angelo Giumento

KANSAS CITY POWER & LIGHT

- EPRI Smart Grid Demonstration Initiative: Four Year Update ^P
Gail Allen

KERNKRAFTWERK LEIBSTADT AG

- Pioneering Technology in Switzerland for Visual Inspection and Weld Overlay ^N
Andrew Barritt, Michael Kessler, Rudy Schwammberger

KOREA HYDRO & NUCLEAR POWER CO., LTD.

- Development and Implementation of Long-Term Asset Management Strategies ^N
Myung-hwan Boo, Sun-mi Jeong, Jae-gon Lee, Kyung-hwan Na, Hye-yonug Shin, Se-youul Won, Eun-sub Yun

LOWER COLORADO RIVER AUTHORITY

- Analysis of Water Withdrawal and Consumption in Texas ^E
Scott Ahlstrom

LUMINANT

- Analysis of Water Withdrawal and Consumption in Texas ^E
Wade Stansell



MIDWEST GENERATION, EME, LLC

- Enhanced Interpretation of Electro Magnetic Signature Analysis (EMSA) for Large Machines ^G
Michael Sedlak

NATIONAL GRID

- Ford Escape PHEV Program ^P
John Gilbrook

NEW BRUNSWICK POWER GENERATION CORP.

- Innovative Use of Digital Radiography to Detect Cracking in Steam Turbine Rotor Blades ^G
Rob Griffin P.Eng., Matt Lewis

NEW YORK POWER AUTHORITY

- Application and Enhancement of MOSES-MP Following a Transformer Fire ^E
John Mayette, John Nolan, John Nowicki
- Application of an Acoustic Doppler Current Profiler Flow Measurement System ^E
Jiankang Zhu
- Ford Escape PHEV Program ^P
John Markowitz

NRG ENERGY, INC

- Analysis of Water Withdrawal and Consumption in Texas ^E
Ted Long
- Application of Graphitization Risk Curves in Assessing Piping Systems ^G
Eric J. Barnhouse, Ronald P. Bevacqua Jr., Thomas Fox, Vincent L. Menta, Alan Murphy

OGLETHORPE POWER

- DOE Integration of Southwest Power Pool Wind by Southeast Utilities ^P
Richard Clark

PACIFIC GAS & ELECTRIC

- Characterization of RF Emissions from Two Models of Wireless Smart Meters ^E
Michael Herz



PORTLAND GENERAL ELECTRIC

- Modular Communication Interface Specification for Demand Response ^P
Conrad Eustis

PUBLIC SERVICE CO. OF NEW MEXICO

- EPRI Smart Grid Demonstration Initiative: Four Year Update ^P
Steve Willard

RINGHALS AB

- Performance Demonstration Support of European Weld Overlay Qualification ^N
Hans Martinson

SALT RIVER PROJECT

- Leadership in Addressing Corrosion in Flue Gas Desulfurization (FGD) Systems ^G
John A. Alice, Craig R. Larson P.E.
- Power Transformer and Circuit Breaker Fleet Management ^P
Scott Anderson, Wes Knuth

SACRAMENTO MUNICIPAL UTILITY DISTRICT

- EPRI Smart Grid Demonstration Initiative: Four Year Update ^P
Malissa Ellis

SOUTH CAROLINA ELECTRIC & GAS COMPANY

- Collaborative Benchmarking to Prevent Counterfeit and Fraudulent Items ^N
Brian Mervak

SOUTHERN CALIFORNIA EDISON

- Application of EPRI's Ergonomics Handbook for Company Vehicle Design ^E
Daniel Carbajal, Kai Chiu, Gregg Patterson, Michael J. Smith, James Wood, Andrew J. Zielinski
- Characterization of Magnetic Fields Associated with Electric Vehicles ^E
Richard Hodson, William Messner, Jack Sahl, Glenn Sias, Jordan Smith, Brian Thorson

SOUTHERN COMPANY

- 4 kV Electric Boiler Application ^P
William E. Pasley, Pradeep K. Vitta
- DOE Integration of Southwest Power Pool Wind by Southeast Utilities ^P
David Marshall, Doug McLaughlin
- EPRI Smart Grid Demonstration Initiative: Four Year Update ^P
Dexter Lewis
- Leadership in Demonstrating CO₂ Capture, Transport and Storage ^G
Michael Allen Ivie II, Richard A. Esposito, Nick Irvin
- Modular Communication Interface Specification for Demand Response ^P
Don Brundage, Bryan Coley

SOUTHWEST POWER POOL

- DOE Integration of Southwest Power Pool Wind by Southeast Utilities ^P
Jay Caspary

TENNESSEE VALLEY AUTHORITY

- A Strategic Approach to Improve Unit Turndown Capability ^G
Melissa S. Cook, Jean C. Ortiz, Ross Vincent
- Development and Implementation of a Biomass Power Assessment Methodology ^E
Ed Stephens
- DOE Integration of Southwest Power Pool Wind by Southeast Utilities ^P
DeJim Lowe, David Till, Phillip Wiginton
- Enhanced Operator Situational Awareness Through Improved Alarm Management ^G
Xavier O. Cotto, Heriberto Gonzalez, Randall Olson
- Modular Communication Interface Specification for Demand Response ^P
Bradley E. Baucom, David Smith
- Power Transformer and Circuit Breaker Fleet Management ^P
Bruce Rogers



TENNESSEE VALLEY PUBLIC POWER ASSOCIATION

- Power Transformer and Circuit Breaker Fleet Management ^P
Bruce Harvey

TOKYO ELECTRIC POWER COMPANY

- Use of EPRI Technology to Maintain Safe Shutdown at Fukushima Daini ^N
Shinichi Kawamura, Takayoshi Morinaga, Yoshifumi Nagane, Kazuyuki Nagasawa, Yukiko Ogawa, Atsushi Taniguchi

TRI-STATE G&T ASSOCIATION, INC.

- Power Transformer and Circuit Breaker Fleet Management ^P
Rosa Delacruz

TUCSON ELECTRIC POWER

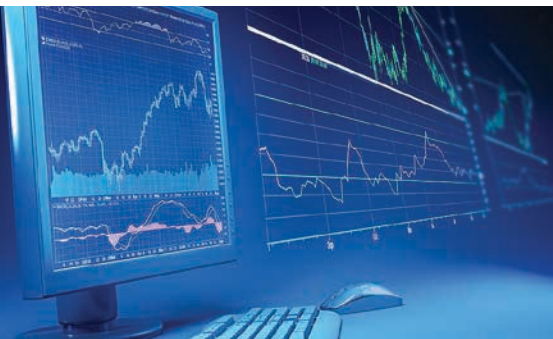
- High Temperature Connector Research for Transmission Capacity Increase ^P
Majid Farahani

WE ENERGIES

- Leadership in Addressing Corrosion in Flue Gas Desulfurization (FGD) Systems ^G
Tim Bacha, John Nepscha

XCEL ENERGY

- Use of Explosive Cleaning Methods to Mitigate Boiler Tube Damage ^G
Richard Hellner, Bret Shellhorn, James Sisko



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