



EPRI Power Quality Applications (PQA) and Advanced Distribution Automation (ADA) 2007 Joint Conference and Exhibition

Transforming Power Systems to Ensure Power Quality and Reliability





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Renaissance Long Beach Hotel,
Long Beach, California
June 11–13, 2007

Transforming Power Systems to Ensure Power Quality and Reliability

The Electric Power Research Institute (EPRI) and Southern California Edison are pleased to announce the 2007 EPRI Power Quality Applications (PQA) and Advanced Distribution Automation (ADA) Conference. PQA/ADA 2007 will provide an unparalleled forum for electric power end-users, distribution engineers, reliability and power quality professionals, and related technology manufacturers to gather, share experiences, and learn from one another in a highly efficient and focused environment. The conference will explore enhancing productivity and profitability through improved understanding of electric power PQ, reliability, advanced distribution automation and related management and strategic issues.

Week of Events

The week of events will begin with an open forum to review and provide an update to include pre-conference tutorials/workshops including Advanced PQ Monitoring and the Emergence of DC in End Use Power. There will also be an open forum to review and provide an update on the Department of Energy (DOE) Project, "Development and Demonstration of Advanced Monitoring Systems for Fault Location, Analysis, and Prediction."

Participants will also enjoy an evening sponsored by Southern California Edison, Dranetz-BMI, and EPRI featuring food and fun on board the legendary Queen Mary cruise ship docked at Long Beach.

The Queen Mary's newly-restored Verandah Grill will play host to an evening of fun, food and nostalgic music that will take you back to a long-lost and glamorous era. Join us for guided tours of the historic ocean liner and World War II troopship, and see restored areas that have been under wraps since the final voyage in 1967, including the Isolation Wards and the aft Machine Rooms.

Following the technical conference, EPRI will hold working group meetings for utility funders of the EPRI PQ (Program 1), ADA (Program 124), and Distribution (Programs 30 and 128).



Day 1, Monday, June 11, 2007

Morning Meeting	DOE Project Update Meeting — Development and Demonstration of Advanced Monitoring Systems for Fault Location, Analysis, and Prediction; <i>Mark McGranaghan, Dan Sabin of EPRI</i>		
Concurrent Afternoon Tutorial	PQ Monitoring <i>Instructors: Mark McGranaghan, Dan Sabin of EPRI</i>	Concurrent Afternoon Tutorial	Emergence of DC in End Use Power (Was Edison Right?) <i>Instructors: Brian Fortenbery, Mark Stephens, Doug Dorr of EPRI</i>
Evening Reception	Welcome Reception, Featuring 2007 Exhibitors		

Day 2, Tuesday, June 12, 2007

Plenary 1	<div>Power System Transformation</div> <div>Chair: Mark McGranaghan, EPRI</div> <div>New Tools for NewTimes: Maintaining Reliability in an Unreliable World</div> <div>Jim Kelly, Vice President of Engineering and Technical Services, SCE</div> <div>PQ, Reliability, and the Distribution System in a Carbon-Constrained World</div> <div>Arshad Mansoor, Vice President, Power Delivery Markets, EPRI</div>		
Track 1: Power Quality		Track 2: Advanced Distribution	
Concurrent 1 A	<div>Economic Evaluation of Power Quality and Reliability</div> <div>Chair: Bill Howe, EPRI</div>	Concurrent 2 A	<div>Advanced Distribution Technologies</div> <div>Chair: Bob Yinger, SCE</div>
	<div>An Economic Framework for Voltage Quality</div> <div>Bill Howe, EPRI</div>		<div>Integrated Distribution Management System</div> <div>Joe Schatz, Chuck Wallis of Southern Company</div>
	<div>End User Perceptions of Power Quality - A European Perspective</div> <div>Roman Targosz, European Copper Institute</div>		<div>Fast Simulation and Modeling for Advanced Distribution Automation</div> <div>Olivier Huet, EDF</div>
	<div>New Approaches for Customer PQ Services</div> <div>Xavier Yang, Gerard Tanneau of EDF</div>		<div>Advanced Fault Analysis System (or AFAS) for Distribution Power Systems</div> <div>Laurentiu Nastac, Concurrent Technologies Corp.</div>
Concurrent 1 B	<div>Power Quality and Reliability Standards and Benchmarking</div> <div>Chair: John McDaniel, National Grid USA (Invited)</div>	Concurrent 2 B	<div>Integrated Monitoring for Automation</div> <div>Chair: Georges Simard, Hydro Quebec</div>
	<div>Update on Adoption of IEEE 1366 Major Event Definition for Reliability Indices Calculations</div> <div>John McDaniel, National Grid USA (Invited)</div>		<div>Performance of Today's Intelligent Controllers and Meters, Elements of an Integrated Monitoring System for ADA</div> <div>Mario Tremblay, Francisc Zavoda of Hydro Quebec</div>
	<div>Developments on Standards for Voltage Quality</div> <div>Dennis Hansen, PacifiCorp and Russ Ehrlich, PEPCO Holdings (invited)</div>		<div>Integrated Monitoring for Fault Location</div> <div>Joe Frani, SDG&E</div>
	<div>Effect of Component Variation On Voltage Sag Ride-Through: Implication on Voltage Sag Standard Test Methods</div> <div>Satish Rajagopalan, Mark Stephens of EPRI and Deepak Divan, GA Tech</div>		<div>Application of MultiSpeak and CIM for Integration of Monitoring Infrastructure with Distribution System Operations</div> <div>Bob Saint, NRECA</div>
Concurrent 1 C	<div>Dealing with Harmonics and Neutral-to-Earth Voltages in Distribution Systems</div> <div>Chair: Marty Page, Southern Company</div>	Concurrent 2 C	<div>Integrated Distributed Resources - Resolving Issues</div> <div>Chair: Stephanie Hamilton, SCE</div>
	<div>Bulk System Harmonics Study</div> <div>Theo Laughner, TVA</div>		<div>Impact on Short-Term Flicker Using Energy Storage and Either a Fuel Cell or Utility Power as Electric Source</div> <div>Ib I. Olsen, Gaia Power Technologies; Jeffrey D. Lamoree, EnerNex Corp.; and Mark Hilson Schneider, Delaware County Electric Cooperative, Inc.</div>
	<div>Effects of Harmonic Neutral Currents on Mutligrounded Distribution Systems</div> <div>Suhag Patel, Juan Menendez of SCE</div>		<div>Status on IEEE SCC21 Standard 1547 on DER Interconnection to the Electric Grid and Associated Body of 1547 Standards</div> <div>Dick DeBlasio, Tom Basso, NREL</div>
	<div>Advanced Harmonic Assessment Module for Power Quality Monitoring Systems</div> <div>Surya Santoso, University of Texas</div>		<div>DTE Energy's Use of DG to Manage Circuit Loading and DEW for Circuit Modeling</div> <div>Haukur (Hawk) Asgeirsson, Power System Technologies, Richard Seguin, EDD</div>
Evening Social Event	<div>A Night at the Queen Mary</div> <div>Sponsored by Southern California Edison, Dranetz-BMI, and EPRI</div>		

Day 3, Wednesday, June 13, 2007

Track 1: Power Quality		Track 2: Advanced Distribution	
Concurrent 1 D	Advanced Applications for Power Quality Monitoring <i>Chair: Dan Sabin, EPRI</i>	Concurrent 2 D	Case Studies in Advanced Distribution <i>Chair: Frank Goodman - EPRI</i>
	The Importance of IEC 61000-4-30 Class A for the Coordination of Power Quality levels - Is it Important? <i>Robert Neumann, Qualitrol LLC</i>		Circuit of the Future <i>Ardalan Kamiab, SCE</i>
	Power Quality - Seeing is Believing <i>Dan Carnovale, Aidian Graham of Eaton</i>		Advancing the State of Looped Distribution Feeders <i>Christopher McCarthy, S&C Electric</i>
	Accurate Fault Location System Based on Distributed Voltage Sags Measurement <i>Georges Simard, Hydro Quebec</i>		
	Monitoring Power Quality Beyond EN 50160 and IEC 61000-4-30 <i>Daniel Amitai, Elspec Ltd, Israel</i>		Intelligent Feeder Automation in Tulsa, Oklahoma <i>Bret Goodwin, Public Service of Oklahoma</i>
Concurrent 1 E	Case Studies in Power Quality <i>Chair: Juan Menendez, SCE</i>	Concurrent 2 E	Integrating Advanced Metering with Distribution Operations <i>Chair: Kay Clinard, UCA Users Group</i>
	EMTP-RV Time Domain Simulations Showing the Impact of Operating a 5MW Pulsating Linear Accelerator on a Transmission, Subtransmission, and Five Distribution Systems <i>Jim Rossman, TVA</i>		A Checklist for Managing Advanced Meter Data for Distribution Operations <i>Debra Henderson, OSIsoft</i>
	Power Quality in the Semiconductor Industry; Impacts and Mitigations <i>Alan Shiroma, Jazz Semiconductor</i>		Scenarios for Improving Reliability and Performance by Integrating Metering and Distribution Automation <i>Erich Gunther, Grant Gilchrist of EnerNex Corporation and Jeff Gooding, SCE</i>
	An Uncommon Approach to a Common Problem <i>Bobby Gettier, Dominion Virginia Power and Chuck Thomas, EPRI</i>		Using Open Standards to Facilitate Integration of Advanced Metering with Distribution Operations <i>Kay Clinard, UCA Users Group</i>
Concurrent 1 F	PQ Improvement Technologies - Latest Developments <i>Chair: Brian Fortenbery, EPRI</i>	Concurrent 2 F	The Business Case for Distribution Automation Technologies <i>Chair: Bob Uluski, Enernex</i>
	Technology Assessment and Application Guide for an Active Voltage Conditioner with Storage Option <i>Tom Geist, EPRI and David Ezer, Omniverter</i>		Cost Effectiveness of Reliability Improvement for Distribution Automation <i>Charles Williams, S&C Electric</i>
	Power Quality Improvement by Dynamic Voltage Restorer with a New Control Strategy <i>T. Kandil, Mohamde Askoura of Al-Azhar University</i>		DA Reliability Improvement – Predicted Versus Actual Results for One Utility <i>Bob Uluski, Enernex</i>
	Enhancing the Value of Distributed Energy Resources with Advanced Power Electronics <i>Charlie Vartanian, SCE</i>		Business Case for ADA and Smart Grid <i>Ali Ipakchi, KEMA</i>
Plenary 2	<div>The Quality of Electric Supply as a Strategic Business Driver <i>Chair: Bill Howe, EPRI</i></div> <div>Electricity for the 21st Century, Kurt Yeager, EPRI</div> <div>AC Stall - Your Pending PQ Nightmare, Bob Yinger, SCE</div> <div>A Vision for Revolutionizing PQ Over the Next 10 Years, Bill Howe, EPRI</div> <div>Be Sure to Stay for the Raffle of an Automotive GPS Navigation System* During Closing Ceremonies! <i>*Must be present to win</i></div>		

Day 4, Thursday, June 14, 2007, 8:00 a.m. – 5:00 p.m.

Concurrent Meeting	EPRI Program 1 Advisory Meetings <i>Meeting Host: Bill Howe, EPRI</i>	Concurrent Meeting	EPRI Distribution P30, P124, P128 Advisory Meetings <i>Meeting Host: Matt Olearczyk, EPRI</i>
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Day 5, Friday, June 15, 2007, 8:00 a.m. – 12:00 p.m.

Concurrent Meeting	EPRI Distribution P30, P124, P128 Advisory Meetings <i>Meeting host: Matt Olearczyk, EPRI</i>
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Focus of 2007 PQA/ADA Conference

Utilities, industry representatives and consumers will share their unique perspectives on the importance of power quality and ADA and how they currently address quality, automation, and reliability issues. Understanding the end-user perspective is critical in order to quantify the real cost of power quality and reliability problems and to develop the lowest-cost solutions that meet the needs of users and optimize efficiency on both sides of the meter. Southern California Edison and EPRI invite you to register to join in this premier event and hear from industry leaders on important issues.

Exhibition

Companies offering innovative products and services that enhance and improve electric power reliability, power quality, operating costs, and system performance are invited to participate in the 2007 PQA & ADA Exhibition. The exhibition, held in conjunction with EPRI's annual PQA/ADA Conference, showcases leading-edge power quality and advanced distribution automation technology solutions and services.

Past exhibitors have included Active Power Corporation, Dranetz-BMI Electrotek Concepts/WPT, Inc., EnerNex Corporation, Fluke Corporation, FLIR Systems, Power Measurement Schneider Electric, Power Monitors, Inc., Omniverter, Inc., Hi Tec USA, S&C Electric Co., United Engineering, Pillar, Power Quality Services Center, Power Standards Lab, Electro Industries, SEA Limited, Measurlogic, Inc., Pentadyne Power Corporation, Caterpillar and SoftSwitching Technologies to name just a few.

For more information, contact Lisa Wolfenbarger at 865.218.8026 or lwolfenbarger@epri.com; or register online through www.MyPQ.Net as described in the registration section.

Accommodations

The conference will be held at the Renaissance Long Beach Hotel. Attendees are responsible for making their own room reservations at The Renaissance Hotel by calling toll-free: 1.800.468.3571. To obtain the EPRI group rate of \$139 (single) or \$139 (double), mention "EPRI/SCE Joint Meeting." The room reservation deadline is May 18, 2007.

Conference Logistics

For questions or further information regarding conference logistics, contact Lisa Wolfenbarger at 865.218.8026 or lwolfenbarger@epri.com; or go to the conference information web site as described in the registration section below.

For technical questions please contact Mark Stephens at 865.218.8022 or mstephens@epri.com

Registration

For more information and to register for this event, please visit www.MyPQ.net, and click "More Information" in the PQA 2007 information area. Alternatively, you can navigate directly to the conference registration page by [clicking here](#).

If this is your first time using the new EPRI conference registration Cvent system, you will be asked to create a new, free account. If you experience any difficulties registering for PQA/ADA 2007, please contact Brent Lancaster at 704.595.2017 or blancaster@epri.com.

An *early registration* incentive of \$100 is available until May 30th, 2007.

Win an iPod!
*Registrations
received on or
before May 15
vie for a 4GB
iPod Nano*



The Electric Power Research Institute (EPRI)

The Electric Power Research Institute (EPRI), with major locations in Palo Alto, California; Charlotte, North Carolina; and Knoxville, Tennessee, was established in 1973 as an independent, nonprofit center for public interest energy and environmental research. EPRI brings together members, participants, the Institute's scientists and engineers, and other leading experts to work collaboratively on solutions to the challenges of electric power. These solutions span nearly every area of electricity generation, delivery, and use, including health, safety, and environment. EPRI's members represent over 90% of the electricity generated in the United States. International participation represents nearly 15% of EPRI's total research, development, and demonstration program.

Together...Shaping the Future of Electricity

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