



EUCI Presents a Web Conference Series on:

ASSET MANAGEMENT FOR ELECTRIC UTILITIES

March 23, 2010 • March 25, 2010 • March 26, 2010

Session 1:
**Data-driven Asset
Management in the Era of
Smart Grid**

March 23, 2010 :: 2:30 – 4:00 p.m. Eastern Time

Session 2:
**Decision Tools and Asset
Risk Models for Utility Asset
Management**

March 25, 2010 :: 12:00 – 1:30 p.m. Eastern Time

Session 3:
**Cost-effective Reliability
Improvements for Utilities**

March 26, 2010 :: 12:00 – 1:30 p.m. Eastern Time

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IACET to offer 0.1 CEU
for each program.



SESSION 1: DATA-DRIVEN ASSET MANAGEMENT IN THE ERA OF SMART GRID

March 23, 2010 :: 2:30 – 4:00 p.m. Eastern Time

OVERVIEW

Successful asset management requires making resource and equipment decisions based on in-depth analysis and evaluation of both the system performance and asset-level data. To manage the sheer amount of data produced by utilities of the future, data-driven asset management has to be structured to collect, analyze and deliver adequate and timely information in a visual/graphical manner to aid in informed decision-making. Using near real-time performance-based data, operations managers can make timely and justifiable decisions faster and more effectively, enabling better planning, optimizing, and better management of the grid load, the infrastructure life-cycle, construction operations, and maintenance repair and replacement activities.

This web conference will explore the data-driven asset management opportunities presented by the smart grid era, and ways to leverage physical assets using near-real-time information available from automated data collection, in conjunction with information traditionally available. The web conference will also highlight important qualities for interfaces that enable prudent decisions and timely action.

WHO SHOULD ATTEND

- Utility asset management system planners
- Directors of asset management
- Financial officers and budget managers of utilities
- Asset health personnel
- Operational services personnel
- Utility engineers
- Attorneys representing utility clients
- Consultants to electric utility industries

LEARNING OUTCOMES

- Identify resources and technology to manage transformational change
- Forecast a utility's future needs regarding physical and human assets
- Analyze smart grid capabilities including advanced sensing, communication and data aggregation
- List new strategies and tools for effective asset management
- Describe modern and traditional approaches to asset management

PROGRAM AGENDA

- Examining resources and technology to manage transformational change
- Determining a utility's future needs regarding physical and human assets
- Analyzing smart grid capabilities including advanced sensing, communication and data aggregation
- New strategies and tools for effective asset management
- Overview of modern and traditional approaches to asset management
- Q&A

IACET



EUCI has been approved as an

Authorized Provider by the International Association for Continuing Education and Training (IACET), 1760 Old Meadow Road, Suite 500, McLean, VA 22102. In obtaining this approval, EUCI has demonstrated that it complies with the ANSI/IACET Standards which are widely recognized as standards of good practice internationally.

As a result of their Authorized Provider membership status, EUCI is authorized to offer IACET CEUs for its programs that qualify under the ANSI/IACET Standards.

EUCI is authorized by IACET to offer 0.1 CEUs for each program.

Requirements for completing webinar:

Participants must be logged in to the web conference for its entirety to receive continuing education credit.

Methods of Instruction:

Web based PowerPoint presentation and on-line interactive question/answer session.

INSTRUCTORS

Larry Dickerman is the **Vice President of T&D Smart Grid Integration** with **KEMA Inc.**, and a 35-year veteran of the utility industry with significant operational and management experience. Through a combination of technical capabilities and business problem-solving skills, Mr. Dickerman has a proven ability to direct divisions, departments, teams and projects and is widely recognized as an industry leader and innovator in Asset Management, Emergency Restoration Planning and Smart Grid Technology Development. Prior to joining KEMA, Mr. Dickerman held positions at AEP as Director of Distribution Engineering Services, Director of Distribution Dispatch and Emergency Restoration Planning, Vice President of Distribution Services, Vice President of Portfolio Analysis and Asset Strategy, and Vice President of Distribution Asset Management. His responsibilities included the following: standards, asset programs, engineering processes and best practices, technology development, emergency restoration planning, outage management, meter installation and maintenance for 5 million customers, underground cable damage prevention, power quality, power reliability, long-range system planning, work management systems and processes, asset utilization, interfacing with regulatory groups, skills training development, T&D information technology and end-user support, real-time information systems, benchmarking, and overall Smart Grid system integration activities, including renewables integration and energy storage. Mr. Dickerman is a registered professional engineer.

Darije Nikolic is the **Asset Management Practice Coordinator** with **KEMA Inc.** He has over 20 years of experience on five continents with exceptional expertise in the Asset Management arena, advising both utilities and equipment vendors on technology management, performance prediction, investment strategy, and effectiveness and sustainability of operations.

Mr. Nikolic's background includes R&D and equipment design, turnkey substation and transmission projects, process and business integration, total cost of ownership management and effective asset management for power utilities. Prior to joining KEMA, he held positions with EPRI Solutions, Commonwealth Edison, Fujikura Ltd. and Energoinvest Corp. Mr. Nikolic received his MBA in Industrial Engineering and Masters in Technology Management from Northwestern University and BSc and Masters in Electric Power Engineering from the University of Sarajevo.

SESSION 2: DECISION TOOLS AND ASSET RISK MODELS FOR UTILITY ASSET MANAGEMENT

March 25, 2010 :: 12:00 – 1:30 p.m. Eastern Time

OVERVIEW

Risk-based economic-life tools help utilities justify and prioritize spending to replace or refurbish aging infrastructure. The fundamental calculation is to balance the benefit of delaying capital expenditures against the cost due to risk of failure as assets age. The optimal life-cycle is asset-specific and dependant on parameters such as condition, consequences of failure, and cost to replace or refurbish. Transparency and emphasis on cost/benefit analysis make the results convincing to senior managers, rate boards, and other non-technical audiences.

This web conference will examine decision tools including health indexing and risk assessment (in particular, identifying and quantifying the consequences of failure for distribution and transmission assets), and will discuss how to build a business case based on economic-life models.

LEARNING OUTCOMES

- Define what is health indexing, and how a health index is developed
- Evaluate health indexing results
- Recognize data collection strategies
- Identify potential consequences of failure for distribution, transmission and generation assets
- Identify how to dollarize outage costs
- Describe concept of economic life
- Explain how to make a business case based on economic life
- Recognize how to prioritize spending

PROGRAM AGENDA

- Health Indexing
 - What is health indexing?
 - Process for developing a health index
 - Common pitfalls
 - Evaluating health indexing results
 - Data collection strategies
- Risk Assessment
 - Identifying and quantifying the consequences of failure for distribution assets
 - Identifying and quantifying the consequences of failure for transmission or generation assets
 - "Dollarizing" outage costs
- Economic Life
 - Concept of economic life
 - Making a business case based on economic life
 - Prioritization of spending
 - Other applications of the method

INSTRUCTORS

Darin Johnson is the **President** and **Director** of the asset management practice at **BIS Consulting, LLC**. He has 17 years of experience in the power industry, including risk analysis, capital planning, and life-cycle cost analysis for electric transmission and distribution, water/wastewater, and hydroelectric generation facilities.

His work addresses the full range of asset management program development, from framework and strategic planning through implementation of decision-support methodologies and business processes to justify and prioritize replacement of aging assets and other spending programs.

Neil Reid is a **Vice President** of **BIS Consulting, LLC**. He has 45 years experience in power transmission, including asset management, condition assessment, conceptual engineering, project management and scheduling, preliminary and final design, cost estimating and control, equipment specification, construction management and testing of hydroelectric, fossil and nuclear power plants, high voltage substations, transmission, and distribution systems.

In addition to project management, he has an extensive background in preparing reports, filings and proposals for managing, defining and evaluating power supply interconnection plans, power and energy requirements, and load flow, short circuit, and voltage drop studies. He has had full responsibility for the preparation of asset condition assessment reports for use in rate filings submitted to the Ontario Electric Board, the BC Utilities Commission and the National Energy Regulator of South Africa (NERSA). He has provided expert testimony related to electric power system costs, operation and safety. Mr. Reid is a registered Professional Engineer in several states in the United States of America and is qualified for registration in Canada and the United Kingdom.

SESSION 3:

COST-EFFECTIVE RELIABILITY IMPROVEMENTS FOR UTILITIES

March 26, 2010 :: 12:00 – 1:30 p.m. Eastern Time

OVERVIEW

In this web conference BIS Consulting and UMS Group will present concepts and tools used to provide cost-effective improvements in reliability, both at the system and equipment/component level. In so doing, we will examine:

- Value-risk trade-offs for capital expenditures, resulting in a business case, tailored to a regulator, to support investments in reliability improvement.
- Approaches to ensure that capital investments provide incremental improvement in overall system reliability.
- Methodologies to establish optimum replacement points for individual equipment or components based on condition, consequences, and probability of failure, and projected replacement or refurbishment costs.
- Methods to compare the cost effectiveness of competing improvement projects to ensure that resources are directed to the highest-return activities.

Specific topics will include ideas for system reliability performance improvement, risk assessment and building a business case, and capital expenditure optimization. By participating in the web conference, you will be armed with industry-proven approaches to improve both system and equipment/component reliability; and be able to do so with the least exposure in terms of system and equipment/component failure.

LEARNING OUTCOMES

- Appraise value-risk trade-offs for capital expenditures
- Describe approaches to capital investments that result in greater reliability
- Identify methodologies to establish optimum equipment/asset replacement points based on condition, consequences and probability of failure, and projected replacement/refurbishment costs
- List methods to compare the cost effectiveness of competing improvement projects
- Review risk assessment and building a business case

PROGRAM AGENDA

- Value-risk trade-offs for capital expenditures
- Approaches to capital investments that result in greater reliability
- Methodologies to establish optimum equipment/asset replacement points based on:
 - o Condition
 - o Consequences and probability of failure
 - o Projected replacement/refurbishment costs
- Methods to compare the cost effectiveness of competing improvement projects
- Risk assessment and building a business case

INSTRUCTORS

Darin Johnson is the **President** and **Director** of the asset management practice at **BIS Consulting, LLC**. He has 17 years of experience in the power industry, including risk analysis, capital planning, and life-cycle cost analysis for electric transmission and distribution, water/wastewater, and hydroelectric generation facilities.

His work addresses the full range of asset management program development, from framework and strategic planning through implementation of decision-support methodologies and business processes to justify and prioritize replacement of aging assets and other spending programs.

INSTRUCTORS (CONTINUED)

Jeffrey W. Cummings is a **Principal** at **UMS Group**. Mr. Cummings has over 29 years experience, applying his diverse background in power generation, and transmission, distribution and substation planning and design to addressing the key strategic and operational challenges confronting the electric and gas industry. His clients have included many of the largest investment-owned utilities and municipalities in North America and Australia where he has recently provided consulting and advisory support in the areas of T&D network modernization, distribution reliability, fleet optimization and regulatory strategy. He joined UMS Group as a Principal in 2004 and heads up their practice of integrating a long-term T&D network strategy with emerging SmartGrid and advanced metering technologies.

LOGGING IN TO THE WEB CONFERENCE

After registration, each registrant will receive a confirmation of payment or an invoice, depending on method of payment. Each registrant will also receive an e-mail with appropriate login information and more information regarding the event 24 hours prior to the start of the event. To log on, you will need a Windows PC with a broadband connection and audio system.

WHAT IS A SINGLE SITE CONNECTION?

A site connection allows a single connection to the web conference. That connection is open to any number of users in a collaborative setting. Because there are no travel expenses and only a single registration fee is required, each additional participant lowers the cost per participant significantly.

By purchasing a site connection, you can invite as many people as you would like to view and participate in the session from a single location. Set up the session in a conference room and project the presentation and chat on a large screen. You also have rights to distribute copies of the presentation materials to everyone involved. Please note that audio is received via the computer sound system and must be broadcast to your group.

If for any reason a relevant stakeholder cannot co-locate for the session, we encourage you to include that person by purchasing an additional connection at the reduced fee of US \$195 per session. This will ensure that every member of a team receives the same relevant, timely information in the most efficient way.

If you have any technical or purchasing questions, please contact us at (303) 770.8800.

Session 1: Data-driven Asset Management in the Era of Smart Grid, March 23, 2010

2:30 PM Eastern Time

United States Regional Start Times:

11:30 AM Pacific :: 12:30 PM Mountain :: 1:30 PM Central :: 2:30 PM Eastern

Session 2: Decision Tools and Asset Risk Models for Utility Asset Management, March 25, 2010

12:00 PM Eastern Time

United States Regional Start Times:

9:00 AM Pacific :: 10:00 AM Mountain :: 11:00 AM Central :: 12:00 PM Eastern

Session 3: Cost-effective Reliability Improvements for Utilities, March 26, 2010

12:00 PM Eastern Time

United States Regional Start Times:

9:00 AM Pacific :: 10:00 AM Mountain :: 11:00 AM Central :: 12:00 PM Eastern

Use the time zone converter (<http://www.timezoneconverter.com/cgi-bin/tzc.tzc>) to find your correct start time.

ASSET MANAGEMENT FOR ELECTRIC UTILITIES

March 23, 25, 26, 2010

REGISTRATION INFORMATION

Mail or fax this form along with payment. You will receive a confirmation and/or invoice within 48 hours. Make checks payable to EUCI.

MAIL DIRECTLY TO:
EUCI
4643 S. Ulster St., Ste. 350
Denver, CO 80237, USA

ONLINE:
www.euci.com

FAX TO:
(303) 741.0849

PHONE:
(303) 770.8800

REFUND / CANCELLATION POLICY

All cancellations received prior to March 5, 2010 will be subject to a \$50 processing fee per web conference per registrant. Written cancellations received after this date will create a partial credit of the tuition good toward any other EUCI conference, publication or web conference. This credit will be valid for six months. No refunds will be given after March 5, 2010 in any case. In case of webinar cancellation, EUCI's liability is limited to refund of the webinar registration fee only.

PLEASE REGISTER THE FOLLOWING

- Electric Utility Asset Management All Three Sessions, Single Site Connection: US \$815
Early Bird on or Before March 22, 2010: US \$765
- Electric Utility Asset Management Two Sessions, Single Site Connection: US \$600
Early Bird on or Before March 22, 2010: US \$550
- Electric Utility Asset Management One Session, Single Site Connection: US \$345
Early Bird on or Before March 22, 2010: US \$295
- Additional site connections: US \$295 each
Early Bird on or Before March 22, 2010 US \$195 each
(Select site connections below)

Choose the sessions you would like to attend below.

Select sessions you would like to attend, number of site connections you would like for each.

- Session 1:** Number of additional site connections _____
- Session 2:** Number of additional site connections _____
- Session 3:** Number of additional site connections _____

Web Conference Presentations Available on CD:

CDs are available 48 hours after the web conference is complete. The cost for one CD is US\$295 [add US\$50 for international shipments]. See above pricing for discounts on multiple CD orders. Upon receipt of payment the CD will be shipped to you. NOTE: All presentation CD sales are final and are non-refundable.

Session 1: **Session 2:** **Session 3:**

ENERGIZE WEEKLY

When you sign up for "Energize Weekly" you will receive a new conference presentation each week via email on a relevant industry topic. The presentations are selected from a massive library of over 1000 current presentations that EUCI has gathered during its 22 years organizing conferences.

Sign me up for "Energize Weekly"

How did you hear about this event? (Direct email, Colleague, Speaker(s), etc.) _____

Name _____ Job Title _____
E-Mail _____
Company _____ Telephone _____
Address _____ City _____ State _____ Zip _____

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Visa and MC cards have a 3 digit code on the signature panel on the back of the card, following the account number. American Express cards have a 4 digit code on the front of the card, above the card number.

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