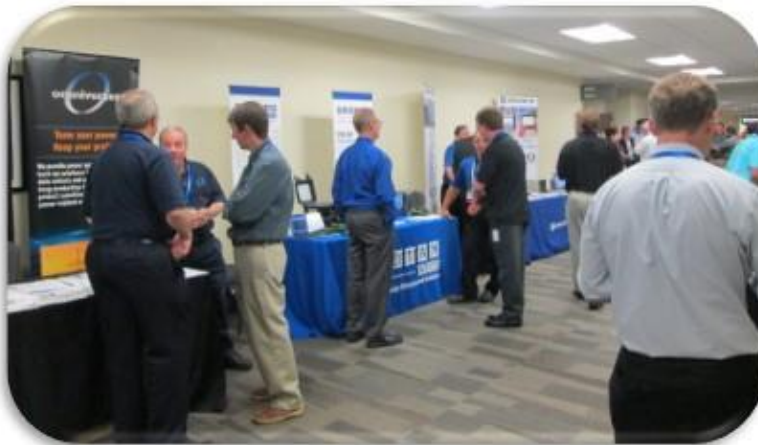


INFORMATION, COMMUNICATION & CYBER SECURITY NEWSLETTER

Dear ICCS Advisors and Stakeholders,

We had a great turnout at the EPRI Smart Distribution & Power Quality (SDPQ) 2015 Conference and Exhibition last week and American Electric Power (AEP) was a fantastic host.



June 2015

In this Newsletter

[ICT Program \(161\)](#)

[Cyber Security Program \(183\)](#)

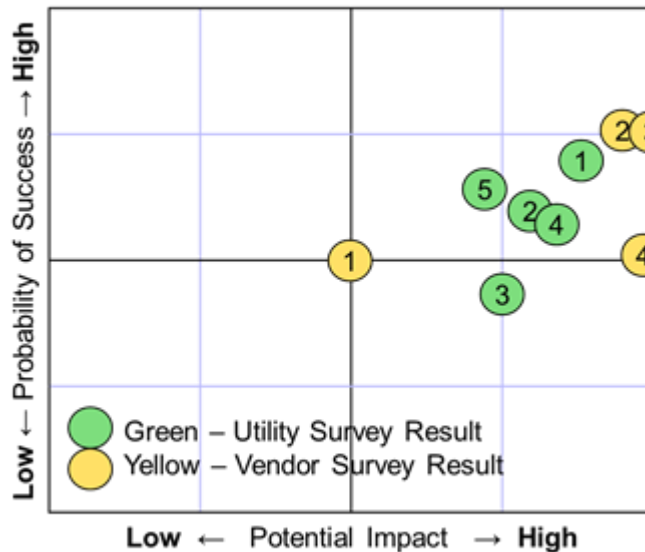
[Data Analytics \(DMD & TMD\)](#)

[Upcoming Events](#)

If you missed it, all the presentations are available here: <http://eventmobi.com/sdpq2015/>. Start planning to attend SDPQ 2016 as Southern Company is hosting the conference in Atlanta, GA. Date is to be determined, with a target of mid-to-late June 2016.

Our ICT and Cyber Security teams are currently working diligently to update our roadmaps. In addition, the survey on R&D gaps is complete and we are in the process of analyzing the survey results. We have a number of perspectives to consider when analyzing the results and since the SDPQ conference had a mix of utilities and vendors, I did a brief analysis and presentation on a handful of the gaps comparing how utilities and vendors responded. Here's a sneak-peek of just one example of how we are using this information to prioritize our R&D.

Information, Communication and Cyber Security Roadmap Survey Example Survey Results



R&D Gap

1. Addressing lack of algorithms and data analytics for optimizing AMI Data
2. Standards to enable interoperability of modern and legacy equipment to co-exist
3. Transitioning from non-standard communication technologies to standard ones across utility operations
4. Having Access to the Right Data at the Right time
5. Lack of common metrics to show value of cyber security

*Note, no vendor responded to gap 5

Those of us in the United States have the 4th of July holiday to enjoy (Be Safe!) and I wish everyone an enjoyable summer with your family and friends!

Matt Wakefield

Director, Information, Communication and Cyber Security Research

Information and Communication Technology (ICT) (161)



EPRI at Exelon Tech Expo



EPRI participated in the annual Exelon Innovation Expo on June 18 in Philadelphia, PA. Approximately 1400 Exelon employees from PECO, ComEd, and BGE participated in the event. This year's theme was "The Digital Worker" --- and the application of digital wearable and proximity sensors to enhance the safety and productivity of workers across the spectrum of industrial, professional, and field applications. The event included 120 poster/booths by Exelon employees who presented various projects and competed for best poster awards.

Articles

Electric Energy T&D – May/June 15, 2015



Check out the May/June issue of Electric Energy T&D Magazine where EPRI's Gerald Gray, Brian Seal and John Simmins discuss work to advance an integrated grid using distributed energy resource management systems, or DERMS.

NREL Partnerships to Help the Grid Accommodate More Renewable Energy - June 15, 2015

The Energy Department's National Renewable Energy Laboratory (NREL) announces five new partnerships that will award up to \$6.5 million in federal funds to technical teams throughout the country. The cost-shared projects with industry, universities, and other stakeholders will address the challenge of enabling the nation's electric grid to handle increasing amounts of renewable energy.

[Full Article](#)

Recent ICT / IntelliGrid (161) and Related Demonstration Deliverables

Title	Date
<u>ICT Informational Webcast: ANSI/CEA-2045 Modular Communication Interface Standard Update</u>	22-Jun-2015
<i>In February 2013, the Consumer Electronics Association (CEA) released standard CEA-2045 which defines a modular communication interface, or port, into which communication modules of any kind can be plugged. This standard is intended</i>	

for application on any appliance to enable demand response (DR), automation, and remote management. EPRI Report 3002004020 describes this new standard in detail.

Information and Communications Technology for Distribution Webcast – Project Set P161C – Meeting Materials 18-Jun-2015

Smart Grid Communications Intelligencer, Spring 2015 02-Jun-2015

Smart Grid Communications (“Comms”) Intelligencer is a triannual newsletter published by EPRI's Information and Communications Technology (ICT) Program. This newsletter highlights issues of relevance and interest to utility communications engineers and managers. The focus is on developments in communication technologies and standards, and business issues that can affect the design, deployment, or operation of utility communications infrastructure.

EPRI's Information and Communication Technology Program Newsletter 1-Jun-2015

The latest ICT Program Newsletter provides highlights of our research results is now available. Articles in this issue provide a summary of our work to examine the state of private licensed communications spectrum suitable for utility networks, and updates on our field area communications network demonstration project and our work to support the IEC standards initiatives to support asset health data integration. If you have any questions about our work, please contact [Don Von Dollen](#) or the project manager.

Development of Outage Management Status Messages and Test Plan for Phase 1: Red Button 29-May-2015

Adoption of a national outage data standard would ensure uniform outage processes within utility operations, increased accuracy for information distribution, standardized outage nomenclature, and more timely data dissemination for entities involved in an outage response. This report addresses requirements of the Outage Data Initiative (ODI), which was initiated by the White House Office of Science and Technology. The ODI involves a commitment from utilities and technology companies for establishment of a standardization methodology for outage and restoration data. The data would be sourced from publicly available outage information and would be presented in a standardized format, with the ultimate vision being a nationwide outage map.

Upcoming Webcasts

(Details are available in the [Member Center](#) under the ICT Cockpits)

Title	Date
<u>EPRI: Smart Grid Enterprise Architect Interest Group Webcast</u>	23-Jul-2015 27-Aug-2015 24-Sep-2015
<u>EPRI Information and Communication Technology (ICT) and Cyber Security Orientation Refresher</u>	24-Jul-2015

The purpose of the webcast is to provide a basic EPRI orientation refresher on how to get the most value out of your EPRI membership. This should be of interest for utility advisors who are engaging for the first time or those who just need a basic refresher.

Cyber Security and Privacy Program (183)



Upcoming Webcasts

(Details are available in the [Member Center](#) under the Cyber Security Cockpits)

Title	Date
Cyber Security & Privacy 183D Mid-Year Update Webcast <i>During this webcast, we will present on the three projects within the Information Assurance project set:</i> • Security Architecture • Risk Assessment • Security Metrics	15-Jul-2015

Distribution and Transmission Modernization on Data Analytics



Recent DMD/TMD and Related Demonstration Deliverables

Title	Date
EPRI Data Analytics for Distribution and Transmission DMD/TMD Spring 2015 Advisory Meeting Materials Available	

Upcoming Events

Dates

EPRI Seminar: Integrated Grid Concept and Technology Development
Tokyo Japan. Contact Laura Abbott (labbott@epri.com) for more info

August 20 & 21

EPRI Power Delivery and Utilization Advisory Meetings, Baltimore, MD

October 5-8

Together...Shaping the Future of Electricity

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