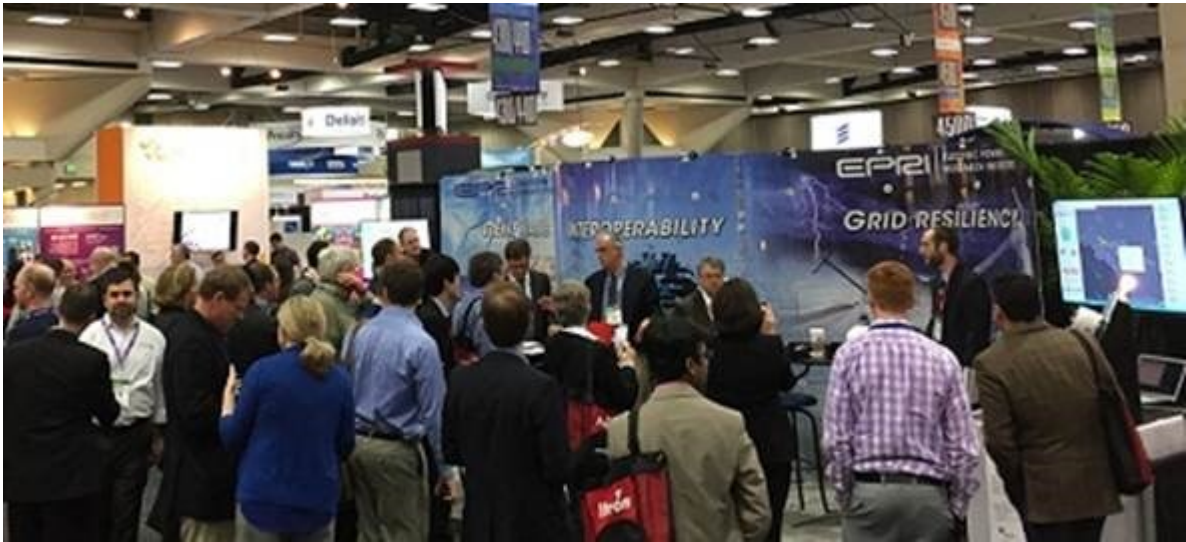


INFORMATION, COMMUNICATION & CYBER SECURITY NEWSLETTER

Dear ICCS Advisors and Stakeholders,

Happy Friday the 13th! It was great seeing many of you at DistribuTECH last week. As you can see from the photo, our booth was pretty busy and it was excellent to see many examples where EPRI R&D has been commercialized on the exhibition floor (OpenADR Software, CEA-2045 Modular Connector, IEC 61850, CIM and more!).



Our next major event with members is at our [Advisors meetings in Phoenix March 2-5](#) and we look forward to seeing EPRI members there where we are *"Together.....Shaping the Future of Electricity"* so don't forget to register if you haven't already. Now, on to the rest of the newsletter.

Sincerely,

Matt Wakefield

Director, Information, Communication and Cyber Security Research

February 2015

In this Newsletter

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

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

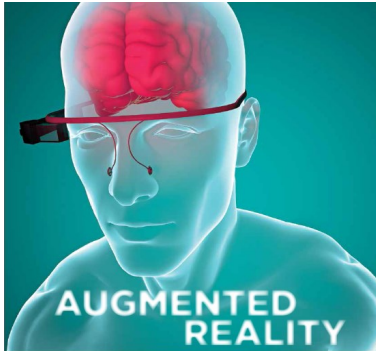
[Data Analytics \(DMD & TMD\)](#)

[Smart Grid Demo](#)

[Upcoming Events](#)



Recent Articles from EPRI Staff



[From eclectic history to today's electricity](#)

By John J. Simmins, Gerald R. Gray & Norman McCollough

YOU MIGHT NOT HAVE REALIZED IT, BUT augmented reality (AR) has been incorporated into your college football experience since 1998. Thanks to a company called Sportvision, the viewers at home know when a team gets a first down before viewers at the stadium. How? TV viewers see the line of scrimmage marker drawn across the screen. That's augmented reality—but not virtual reality. [Full Article](#)

[Location Standards Emerge as Critical to Utilities' Outage Response](#)

[Ron Exler](#) | Jan 30, 2015

White House announces fast-track industry-led effort to improve information sharing with consumers and first responders

Co-Authors:

Authors: Dr. John J. Simmins, Technical Executive at the Electric Power Research Institute (EPRI) and co-chair OGC Energy & Utilities Domain Working Group, Renee Bogle Hughes, Business Relationship Manager at Consumers Energy and co-chair OGC Energy & Utilities Domain Working Group, and Ron Exler, OGC senior consultant.

The White House with the Energy & Utilities industry [announced](#) new steps in its energy strategy in May 2014 at the "Energy Datapalooza". While most of the media focused on the carbon emissions reductions, one of those steps involves providing consumers, local governments, and first-responders with improved information about power outages. [Full Article](#)

[IEEE SMARTGRID newsletter](#)

The Electric Power Research Institute (EPRI) and the U.S. Department of Energy's (DOE's) Office of Electricity Delivery and Energy Reliability (OE) held a conference¹ to assess progress, impacts, benefits, and lessons learned from utility smart grid projects and to exchange information about future challenges and opportunities. The conference provided participants with information and analysis resulting from unprecedented investments in smart grid deployments over the past five years, funded in large part through cost-shared grants under the American Recovery and Reinvestment Act of 2009 (Recovery Act). [Full Article](#)

Deliverable Highlights

The Information and Communication Technology Program Project Set 161A End of Year Webcast materials are available through this [link](#).

The Information and Communication Technology for Transmission - Project Set PS161B Webcast materials are available through this [link](#).

The Information and Communication Technology Program Project Set 161C End of Year Webcast materials are available through this [link](#).

The Information and Communication Technology Program Project Set 161E Webcast materials are available through this [link](#).

The Information and Communication Technology Program Project Set 161F Webcast materials are available through this [link](#).

Please contact [Ashley Eldredge](#) if you have any issues accessing the materials.

Upcoming Webcasts

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

Information and Communication Technology Program Project Set 161D End of Year Webcast	13-Feb-2015
EPRI: Smart Grid Enterprise Architect Interest Group Webcast	19-Feb-2015
North American Synchrophasor Initiative (NASPI) Working Group Meeting	23-Mar-2015
EPRI: Smart Grid Enterprise Architect Interest Group Webcast	26-Mar-2015

Recent ICT / IntelliGrid (161) and Related Demonstration Deliverables

Title	Published
Smart Grid Communications Intelligencer, Issue 11, Winter 2015	30-Jan-2015



Recent Articles from EPRI Staff



[How to Navigate Existing Cyber Security Risk Management Guidance](#)

[By Annabelle Lee](#)

Currently, the nation's power system consists of both legacy and next generation technologies. This increased digital functionality provides a larger attack surface for any potential adversaries, such as nation-states, terrorists, malicious contractors, and disgruntled employees.

Deliverable Highlights

Cyber Security & Privacy 183A End-Of-Year Update Webcast materials are now available through this [link](#).

Cyber Security & Privacy 183B End-Of-Year Update Webcast materials are now available through this [link](#).

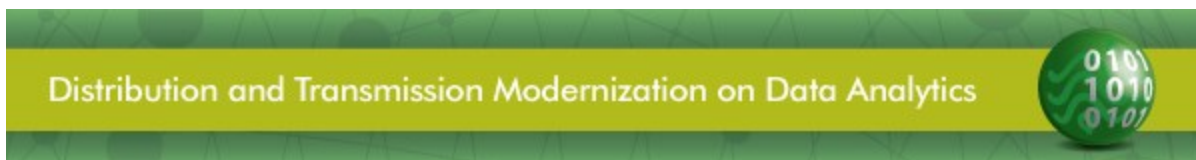
Cyber Security & Privacy 183D End-Of-Year Update Webcast materials are now available through this [link](#).

Upcoming Webcasts

Incident Management Task Force Webcast	20-Feb-2015
New Cyber Security Supplemental Project: Integrated Threat Analysis Center	24-Feb-2015
New Cyber Security Supplemental Project: Integrated Threat Analysis Center	26-Feb-2015

Recent Cyber Security (183) Program Demonstration Deliverables

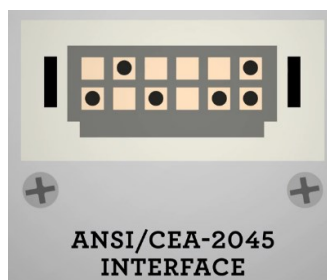
Title	Published
Integrated Threat Analysis Center (ITAC) Event Analysis Framework	26-Jan-2015



EPRI CEA-2045 Field Demonstration Project

EPRI CEA-2045 Field Demonstration project is a collaborative research activity designed to assess the new Consumer Electronics Association CEA-2045 standard. This standard defines a modular port interface that is intended to be incorporated into end-use load devices to support demand response (DR) and remote management.

The intent of the CEA-2045 standard is to make it practical for end-device manufacturers to mass produce retail-viable "DR-Ready" end devices, at minimal upfront cost, that could be compatible with DR programs everywhere. It also is intended to avoid the need for utility truck-rolls and electricians by being simple enough that consumers could plug in communication modules without



[Click](#) to view this YouTube animation describing the modular communication interface (CEA-2045).

EPRI in the News



[EPRI's automated DR software tells appliances when its cheapest to run](#)

Posted by: [Metering International](#) January 23, 2015

In the US, the Electric Power Research Institute (EPRI) has launched new automated demand response software that aims to help devices and appliances on the electric grid automatically respond to changes in price, weather and demand for power. [Read full article](#)

[EPRI Unveils Open-Source Demand Response Software Designed to Help Appliances and Devices Respond to Changes in Grid](#) - **Yahoo Finance** posted the announcement by EPRI of its new demand response software that would provide a common way for devices and appliances on the electric grid to respond automatically to changes in price, weather, and demand for power, a process called automated demand response (ADR).

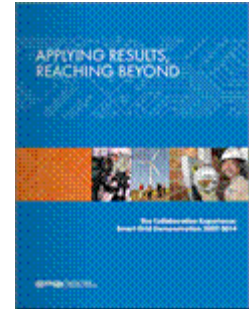
Recent DMD/TMD Project Deliverables

Name	Published
Survey for AMI Data Analytics	06-Feb-2015



[SmartGrid Demonstration Initiative Deliverables by Topic Area and Type](#)

The “yearbook”, [The EPRI Smart Grid Demonstration Collaboration Experience](#), is available



Upcoming Webcasts

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

EPRI: Smart Grid Enterprise Architect Interest Group Webcast	26-Mar-2015
EPRI: Smart Grid Enterprise Architect Interest Group Webcast	23-Apr-2015

Recent Deliverables from the Smart Grid Demonstration Initiative

Name	Published
Smart Grid Communications Intelligencer, Issue 11, Winter 2015	30-Jan-2015

<u>Upcoming Events</u>	Dates
EPRI Power Delivery and Utilization Advisory Meetings, Phoenix, AZ	March 2-4
EPRI Power Delivery and Utilization Sector Council Meetings, Phoenix, AZ	March 4-5
EPRI ICCS European Engagement Summit, Madrid Spain	April 28-29
EPRI Smart Distribution & Power Quality Conference and Expo, Columbus, OH	June 22-24

Together...Shaping the Future of Electricity

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