

In the Spotlight

2019 Annual Portfolio Now Available

EPRI's research and development portfolio is instrumental in optimizing energy through the clean and efficient production, delivery, and use of electricity.

As you review our portfolio, consider the diverse and far-reaching trends moving the electricity sector forward. Today's affordable, reliable, and environmentally responsible power systems depend on effective research and development. From this we chart a path to the future of electricity. Below are links to the 2019 Information, Communication and Cyber Security (ICCS) Research Portfolios.

[161 – Information and Communication Technology](#)
[183 – Cyber Security](#)

Spotlight on Deliverables



Information and Communication Technology (ICT) (P161)

- 3002013875 [Consumer Devices Functional Specification for Photovoltaic Support](#)
- 3002009805 [Utility Telecom Planning Framework and Reference Guide](#)
- 3002013985 [Proceedings of Information and Communication Technology Security Architecture for Distributed Energy Resources Launch Meeting: Champaign Illinois December 2017](#)
- 3002012479 [Information Technology – Operational Technology Convergence Guidebook: First Edition](#)
- 3002012477 [Common Information Model Primer: 4th Edition](#)

Upcoming Events

August 2-3, 2018

ICT Security Architecture
for DER Kick-Off Meeting
Portland General Electric
Portland, OR
[Registration/information](#)

August 20, 2018

Industrial Control Systems
Penetration Testing
Workshop
Knoxville, TN
[Registration/information](#)

September 5-6, 2018

Customer Analytics
Platform Workshop
Consolidated Edison
New York, NY
[Registration/information](#)

September 17-20, 2018

Program Advisory and
Sector Meetings
Marriott Marquis
Atlanta, GA
[Registration/information](#)

November 15, 2018

Adaptive Substation
Architecture for SCADA,
Teleprotection, and
More – Preliminary
Results Workshop
Charlotte, NC
[Registration/information](#)

December 5, 2018

P183 Cyber Security
Program Technology
Transfer Workshop

- 3002012480 [EPRI Enterprise Architecture Workshop Proceedings: Denver Colorado September 2017](#)
- 3002009791 [Low-Power Wide-Area Networks: Overview Characteristics and Applications](#)
- 3002009787 [Unlicensed Noise Floor Study](#)
- 3002009799 [Persistent Wi-Fi Prototype Network Router](#)
- 3002013919 [Black Sky Communications Evaluation](#)
- 3002012476 [Utility Enterprise Architecture Guidebook: 3rd Edition](#)
- 3002012290 [Transactive Incentive-signals to Manage Energy-consumption \(TIME\): The System- and Market-Based Transactive Load Management \(TLM\)](#)
- 3002013705 [Common Information Model \(CIM\) Compliance Testing: 2017 Activities](#)
- 3002014087 [EPRI IEEE 2030.5 Client User's Manual](#)

Supplemental Projects

- [Automating Distributed Network Protocol Point Tag Creation](#)
- [Finding Live Downed Conductors with AMI](#)
- [The Outage Data Initiative: Standardizing Power Outage Reporting for Utilities, Mutual Aid and Emergency Management](#)
- [Persistent Wi-Fi™ Platform for Connected Devices Demonstration](#)
- [Adaptive Substation Architecture for SCADA, Teleprotection and more](#)
- [ICT and Security Architecture for DER Integration](#)
- [Distribution GIS and Grid Model Data Management](#)



Cyber Security (P183)

- 3002003919 [Guidelines for Deploying Application Whitelisting](#)
- 3002014132 [Secure Remote Substation Access: Supplemental Project Report](#)

Supplemental Projects

- [Industrial Control Systems Penetration Testing](#)
- [Intrusion Detection Systems/Intrusion Prevention Systems Solutions Analysis and Testing for ICS Environments](#)
- [ICT and Security Architecture for DER Integration](#)

Knoxville, TN
[Registration/information](#)

Save the Dates

Oct. 31-Nov. 2, 2018

CIM Compliance
 Workshop
[Gerald Grey](#)
[Anna McCoig](#)

February 11-13, 2019

Program Advisory
 Meetings

February 13-14, 2019

Sector Council Meetings
 La Cantera Resort
 San Antonio, TX

Meetings/Webcasts

[P161 Meetings & Webcasts](#)

[P183 Meetings & Webcasts](#)

Check it Out

Dr. Gerald Gray quoted in [RTO Insider](#) - FERC Panels Debate EDCs' DER Role

Augmented Reality—A Literature Review of Human Factors Issues in the Electric Power Industry
[3002012532](#)

Utilities Envision Role for Augmented Reality to Train and Assist Workers. Go to [Energy News Network](#) to read the full article.

[ICT June 2018 Newsletter](#)

Christine Hertzog commented in a [ThirtyK.com](#) article on Electric Power Industry Exploring Blockchain Applications.

EPRI wins grant from DOE to Enhance Cybersecurity Infrastructure. [Read the full article at Politico.](#)



Distribution and Transmission Modernization on Data Analytics

DMD

3002004678 [EPRI Big Data Survey Summary Report – 2017 Edition](#)



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[June 2018 - Cyber Security Newsletter](#)

PowerGrid International EPRI Article - Utility Cyber Strategies. [Read the complete article.](#)

[Public Utilities Fortnightly](#): EPRI-produced podcast that summarized the challenge of managing the cyber security risk to the electric grid

Galen Rasche was quoted in RTO Insider

DMD/TMD Upcoming Events

[DMD Meetings & Webcasts](#)

[TMD Meetings & Webcasts](#)

Together...Shaping the Future of Electricity

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3420 Hillview Avenue, Palo Alto, CA 94304