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TechAdvantage® Conference and Expo is next week! This newsletter notes several of the opportunities to hear firsthand about NRECA's business and technology research and resources for cooperatives. We hope to see you in Orlando, Florida!

Upcoming Events

2019 TechAdvantage® Conference and Expo March 10-13, Orlando, FL

New Guide Explains Changes in IEEE Standard for DER Interconnections

IEEE standard 1547-2003 governing distributed energy resources (DER) interconnections was written focusing on ensuring that DER did not interfere with the normal operation of the distribution system's regulation and protection systems. Now that growth in DER is having significant impact on systems, IEEE 1547-2018 was developed to ensure Bulk Power System (BPS) dynamic and transient stability. This new Guide and our related TechAdvantage session help explain the changes and new features in the 1547-2018 standard and associated effects on cooperatives.

- **Guide**
- Contact for Questions: [Robert Harris](#)

RELATED TECHADVANTAGE SESSION:
New Interconnection Requirements: Guide to IEEE 1547-2018
Monday, March 11 at 11:15 a.m.

More than 500 Co-op CEOs Make Commitment to Zero Contacts

The Commitment to Zero Contacts safety initiative now has 525 co-op CEO commitments across 42 states. NRECA just published 2 new resources in the Commitment to Zero Contacts Toolkit: Cover Up Procedures Video and Commitment to Zero Wristbands. Come hear about this initiative and the resources in the Toolkit at the Annual Meeting and TechAdvantage.

- **Commitment to Zero Contact Toolkit**
- Contact for Questions: [Bud Branham](#)

RELATED ANNUAL MEETING & TECHADVANTAGE SESSIONS:

- Annual Meeting:
Commitment to Zero: Success Stories



Monday, March 11 at 1:30 p.m.

- **TechAdvantage Session: New Trends and Technologies in Safety**

Tuesday, March 12 at 10:30 a.m.

Opportunity to Participate in Co-op Technology Survey

NRECA is updating our 2013 Co-op Technology Survey, to reflect the current state of technology policies and practices at cooperatives around the country. Results of this confidential and comprehensive survey will provide co-ops with insights and best practices for benchmarking and decision-making. All cooperatives are strongly encouraged to participate, to achieve robust survey data. This advisory provides further details.

- **Advisory**
- Contacts for Questions: [Adaora Ifebigh](#) and [Mike Sassman](#)

Discount for EnergySec Cybersecurity Education Week

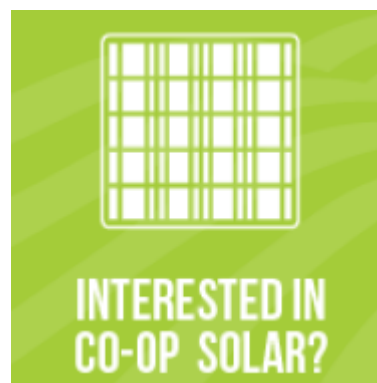
NRECA's Rural Cooperative Cybersecurity Capabilities Program (RC3) has negotiated a reduced registration fee for our members to attend a week-long cybersecurity training hosted by Energy Sector Security Consortium, Inc. (EnergySec). This training is April 29 - May 3 in Charlotte, NC and designed for utility cybersecurity professionals. Instead of the normal registration fee of \$3,495, members can register for \$2,500 using **Promotional Code 30RC3**.

- **Agenda and Registration**
- **More information on EnergySec**
- Contact for Questions: [Adaora Ifebigh](#)

Advanced and Emerging Wind Generation Technologies

Wind energy technologies continue to improve with higher tower hubs resulting in higher AEP and capacity factors. These advancements will allow more areas in the U.S. to develop wind projects where it was not previously cost-effective, such as in the southeastern states. This report is the fourth in our series on wind generation and serves as a resource to help co-ops stay informed on the various stages of wind generation development.

- **Article**
- **Article Series**
- Contacts for Questions: [Dan Walsh](#) and [Dale Bradshaw](#)



Get a Closer Look at the Utility Connected Home at TechAdvantage

The utility connected home is an opportunity for co-ops and end-use members to have a partnership in managing energy use with internet enabled appliances and devices. We'll be devoting some time on demand response strategies with utility connected homes during breakout sessions at NRECA's Annual Meeting and TechAdvantage Conference. Be sure to visit The Lab in the TechAdvantage Expo to tour a model utility connected home and test out the technologies! To prepare for your trip, read about the value of this concept for co-ops and their members, as well as elements of successful programs, in our article series on cooperative.com.

- **Article Series**
- Contact for Questions: [Brian Sloboda](#)

RELATED ANNUAL MEETING & TECHADVANTAGE SESSIONS:

- **Annual Meeting: The Utility Connected Home**
Tuesday, March 12 at 1:00 p.m.
- **TechAdvantage Session: Utility Connected Home Strategies**
Monday, March 11 at 3:30 p.m.
- **The Lab: Utility Connected Home Model**

Attend a Demonstration of the New RC3 Cybersecurity Self-Assessment Toolkit

NRECA now offers a Cybersecurity Self-Assessment DIY Toolkit to help member co-ops to identify cyber threats and vulnerabilities. The Rural Cooperative Cybersecurity Capabilities Program (RC3) staff designed the toolkit to provide a starting point for small- and medium-sized co-ops in the early stages of developing a cybersecurity program. Find a factsheet and access to the Toolkit through the following links. Then, join us at TechAdvantage for the all-day Pre-Conference session where we will demonstrate how to use the Toolkit.

- **Factsheet**
- **RC3 Cybersecurity Self- Assessment DIY Toolkit**
- Contacts for Questions: [Cynthia Hsu](#)

RELATED TECHADVANTAGE SESSION:

Pre-Conference Session: Using the Online RC3 Cybersecurity Self-Assessment Tool to Evaluate Your Cybersecurity Capabilities
Sunday, March 10 at 8:00 a.m.

New RC3 Cybersecurity Tabletop Exercise Toolkit Completes Beta Test

NRECA's Rural Cooperative Cybersecurity Capabilities (RC3) program is working on a new do-it-yourself toolkit to assist small and medium-sized cooperatives. The RC3 Cybersecurity Tabletop Exercise (TTX) Toolkit has been through an initial round of beta testing at three cooperatives. Hear representatives from these cooperatives discuss

what they learned from the cybersecurity incident tabletop exercise in a breakout session at TechAdvantage. The complete RC3 TTX Toolkit will be made available to all cooperatives later in 2019.

- **Advisory**
- Contact for Questions: [Adaora Ifebigh](#)

RELATED TECHADVANTAGE SESSION:

Cybersecurity Tabletop Exercises – Lessons Learned from Co-ops

Monday, March 11 at 11:15 a.m.

Insights from Participants in RC3 Cybersecurity SANS Voucher Program

Cybersecurity is a constantly evolving challenge that requires continuous education and training. NRECA's Rural Cooperative Cybersecurity Capabilities (RC3) Program launched the RC3 SANS Voucher Program to help address cybersecurity training gaps. This new advisory provides details on the Program and shares some of the lessons learned by those who have completed SANS courses to date. Come hear further insights from some of the program participants at the breakout session at TechAdvantage; and learn about an upcoming opportunity to apply for participation.

- **Advisory**
- Contact for Questions: [Lauren Khair](#)

RELATED TECHADVANTAGE SESSION:

Beyond Passwords and Firewalls: Cybersecurity Tactics for Today's Co-op

Monday, March 11 at 10:00 a.m.

Learn About MultiSpeak®

MultiSpeak is making co-ops proud as the latest iteration of this cooperative-built software integration tool is earning interest from utilities and vendors overseas. A recent RE Magazine article features details on this development. Join us at TechAdvantage to learn more about MultiSpeak at a Pre-Conference Workshop and at a Breakout Session.

- **Article**
- Contact for Questions: [Tony Thomas](#)

RELATED TECHADVANTAGE SESSIONS:

- **Pre-Conference Workshop: MultiSpeak Integrator Training**
Sunday, March 10 at 8:00 a.m.
- **Breakout Session: Optimizing Your Distribution System and Unlocking the Value of Data**
Tuesday, March 12 at 10:30 a.m.

Be Sure to Visit NRECA's Booth at

TechAdvantage

In addition to the sessions noted in this newsletter, NRECA is offering many other business and technology Pre-Conference and Breakout sessions as part of this year's robust TechAdvantage Conference agenda. Find the full TechAdvantage schedule through the link below, and be sure to visit our Business and Technology Strategies team at the NRECA booth in the Expo.

- [TechAdvantage 2019 website](#)
- Contact for Questions: [Mary Ackleson](#)

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