
Business and Technology Strategies 2019 Articles and Advisories Summary

NRECA's Business and Technology Strategies *Surveillance* articles and *Advisories* provide up-to-date reviews on an array of energy issues affecting cooperative members. Below is a summary listing of those issued in 2019. You can find the full articles and advisories of these highlights below through the links provided.

Be sure to [visit us on cooperative.com](https://www.cooperative.com) to see new resources available to NRECA members, and sign-up for our twice-monthly newsletter, [Business and Technology Update](#).

Analytics

Contact for Questions:

David Pinney, Principal Analytical Tools & Software Products – David.Pinney@nrea.coop

- Article: [AR/VR Technology - Introduction](#)
- Advisory: [Project Advisor Opportunity CIGAR \(inverter cybersecurity\)](#)
- Advisory: [Opportunity to Participate in Co-op Technology Survey](#) (Invitation to Participate)
- Advisory: [Project Advisor Opportunity - PV Power Quality Phase Balance](#)
- Advisory: [Forecast Tool for Dynamic Load and Storage Control \(OMF\)](#)
- Advisory: [Stacking Multiple Value Streams in Direct Load Control Programs \(OMF\)](#)
- Advisory: [Improving Phase Balance Through Inverter Reactive Power Control \(phaseBalance\) - OMF](#)
- Advisory: [NRECA's Co-op Technology Survey](#) (Results Available)
- Advisory: [Forecast Tool for Dynamic Load and Storage Control \(OMF\)](#)
- Advisory: [Stacking multiple value streams in direct load control programs \(OMF\)](#)
- Advisory: [Improving Phase Balance Through Inverter Reactive Power Control \(phaseBalance\) - OMF](#)

Cyber Security

Contact for Questions:

Cynthia Hsu, Principal Cyber Security Solutions – Cynthia.Hsu@nreca.coop

- Advisory / Factsheet: [RC3 Cybersecurity Self-Assessment Do-It-Yourself Toolkit](#)
- Advisory: [Tabletop Exercises in Cybersecurity Help Cooperatives Prepare for 'The Real Thing'](#)

- Advisory: [Cooperatives Are Gaining Cybersecurity Skills with the RC3 SANS Voucher Program](#)
 - Advisory / Factsheet: [RC3 Cybersecurity Tabletop Exercise \(TTX\) Toolkit](#)
 - Advisory / FAQ: [RC3 Cybersecurity Tabletop Exercise \(TTX\) Toolkit](#)
 - Advisory / FAQ: [SANS Voucher Program \(Cohort #3\)](#)
 - Advisory: [RC3 Self-Assessment Online License Program - Advisory](#)
 - Advisory / FAQ: [RC3 Self-Assessment Online License Program - FAQ](#)
-

Distributed Energy Resources

Contacts for Questions:

Jan Ahlen, Energy Solutions Director – Jan.Ahlen@nreca.coop

Brian Sloboda, Consumer Solutions Director – Brian.Sloboda@nreca.coop

- Article: [Electric Vehicle Charging Control Strategies](#)
- Article: [Not Zero Energy: Why the Zero Net Energy Metric is Not Optimal for the Energy System \(Public Utilities Fortnightly Article\)](#)
- Article: [Evolving Energy Efficiency Programs to Incorporate Beneficial Electrification and Demand Response \(Public Utilities Fortnightly Article: Toward A New Energy Efficiency World Order\)](#)
- Article: [Today's Best Opportunities for Improving Manufactured Homes Energy Efficiency](#)
- Advisory: Opportunity to Lend Input on DOE RFI On Efficient and Flexible Building Loads (link unavailable as this is a past opportunity)
- Advisory: [Updated Battery Energy Storage Technology Overview Report Shows: Cooperatives Add Battery Storage Projects As Prices Fall](#)
- Advisory: [Spotlight on Community Assistance Programs: Meeting Core Community Needs Through Innovation - Advancing Energy Access for All](#)
- Advisory: [Advancing Energy Access for All – Case Study: Cherryland Electric Cooperative](#)
- Advisory: [Opportunity for Cooperatives to Participate in DOE Grant Project to Reduce Solar Deployment Soft Costs \(SETO\)](#)
- Advisory: [Advancing Energy Access for All – Ouachita Electric Cooperative](#)
- Advisory: [Electric Trucks - Do They Make Sense?](#)
- Advisory: [Charging Infrastructure for Electric Trucks](#)
- Advisory: [Advancing Energy Access for All - Case Study: Consolidated Cooperative](#)
- Advisory: [Saving Energy with Commercial Refrigerator and Freezer Systems](#)
- Advisory: [Exploring the Value of Consumer Segmentation for Electric Cooperatives](#)
- Advisory: [NRECA Is Official Supporter of EPRI 2020 Electrification Conference](#)
- Advisory: [Advancing Energy Access for All - Case Study: North Carolina's Electric Cooperatives](#)
- Advisory: [Preparing to Plug in Your Fleet - 10 Things to Consider](#)

- Advisory: [Consumer Expectations of the Connected Home](#)
 - Advisory: [Advancing Energy Access for All - Case Study: Cobb EMC](#)
 - Advisory: [Consumer Expectations on Electric Vehicle Owners](#)
 - Advisory: [Advancing Energy Access for All - Case Study: North Dakota Association of Rural Electric Cooperatives](#)
 - Advisory: [Distributed Wind Project - Participation Opportunity](#)
-

Generation, Environment, & Carbon

Contact for Questions:

Dan Walsh, Senior Power Supply & Generation Director – Daniel.Walsh@nreca.coop

- Article: [Advanced and Emerging Technologies for Wind Generation](#)
 - Article: CEATI Report Summary – Pt 1: [Generator Failure Mechanisms - What Can Go Wrong](#)
 - Article: CEATI Report Summary – Pt 2: [Off-line and On-line Testing: How to Find Generator Faults](#)
 - Article: CEATI Report Summary – Pt 1: [Steam Condensers - How to Find and Fix Leaks and Tube Fouling](#)
 - Article: CEATI Report Summary – Pt 2: [Steam Condensers - How to Assess Integrity and Improve Performance](#)
 - Advisory: [Wind Turbine Leading Edge Erosion](#)
 - Advisory: [NRECA Joins the National Carbon Capture Center \(NCCC\)](#)
 - Advisory: [AREGC Annual Conference Highlights](#)
 - Advisory: [NREL Report: Increasing Wind Turbine Tower Heights: Opportunities and Challenges](#)
-

Resource Adequacy & Markets

Contact for Questions:

Michael Leitman, Senior Analyst Economics & Business – Michael.Leitman@nreca.coop

- Advisory: [Strategic Sourcing Case Study: Sandhills Utility Services \(Cooperative Opportunities To Work With The Military\)](#)
- Advisory: [Innovations in Pricing - Energy Service Subscription Pricing](#)
- Advisory: [Analysis of 2017 Cooperative Retail Fuel Mix](#)
- Advisory: [Electric Co-op Fact Sheet](#)
- Advisory: [DOE Funding Opportunity for Energy Infrastructure Deployment on Tribal Lands](#)
- Advisory: [Broadband Case Study: Allamakee-Clayton Electric Cooperative](#)
- Advisory: [Broadband Case Study: Blue Ridge Mountain Electric Membership Corporation](#)

- Advisory: [Strategic Sourcing Case Study: Building A Cooperative Sourcing Alliance In Texas](#)
- Advisory: [Broadband Case Study: Jackson County REMC](#)
- Advisory: [ERCOT Summer Reserve Margin Below Reference Level for Second Year](#)
- Advisory: [Broadband Case Study: United Electric Cooperative](#)
- Advisory: [Broadband Case Study: Central Virginia Electric Cooperative](#)
- Advisory: [Dynamic Line Ratings](#)
- Advisory: [High-Voltage Direct Current \(HVDC\) Transmission for Greater Renewable Energy Development](#)
- Advisory: [Broadband Case Study: Guadalupe Valley Electric](#)
- Advisory: [Broadband Case Study: Sho-Me Power](#)
- Advisory: [Broadband Case Study: Blue Ridge](#)
- Advisory: [NERC's Annual Long-Term Reliability Assessment](#)
- Advisory: [Strategies for Peak Demand Pricing](#)

Transmission and Distribution

Contacts for Questions:

Robert Harris, Senior Principal Transmission & Distribution Engineering – Robert.Harris@nreca.coop

Patti Metro, Senior Grid Operations & Reliability Director – Patti.Metro@nreca.coop

- Article: [Revision of IEEE Standard 1547.1® \(The DER Interconnection Testing and Verification Standard\)](#)
- Article: [Sandhills' Deployment of Grid Energy Router](#)
- Article: [Defining a Microgrid Using IEEE 2030.7](#)
- Advisory: [PV Safety Concerns and PV Impact Guide Online Courses](#)
- Advisory: [Station Battery Update - National Fire Protection Association Standard 855 for Energy Storage](#)
- Advisory: [NFPA Technical Committee Votes Down Exclusion for Utilities Under Standard 855](#)