
Business and Technology Strategies 2021 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 2021. 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.nreca.coop/visit-us-on-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:

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- Advisory: [The Benefits of ODIN: Outage Data Initiative Network](#)

Cybersecurity

Contacts for Questions:

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Ryan Newlon, Principal - Cybersecurity – Ryan.Newlon@nreca.coop

- Factsheet: [ESSENCE 2.0 – Integrated Cyber/OT Protection Defending America's Energy Supply](#)
 - Advisory: [Cybersecurity Information Sharing – Pt 1: What is it and Why is it Important?](#)
 - Advisory: [Cybersecurity Information Sharing – Pt 2: Resources for Electric Cooperatives](#)
 - Advisory: [Cybersecurity Information Sharing – Pt 3: Barriers Experienced at Electric Cooperatives](#)
 - Advisory: [Cybersecurity Information Sharing – Pt 4: Risk to the Co-op](#)
 - Advisory: [Cybersecurity Information Sharing – Pt 5: External Sharing Uncertainty](#)
 - Advisory: [Cybersecurity Information Sharing – Pt 6: Policy and Culture](#)
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Distributed Energy Resources

Contacts for Questions:

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Tolu Omotoso, Director - Energy Solutions – Tolu.Omotoso@nreca.coop

- Article: [Beneficial Electrification Gains Momentum: Strategies For Communicating with Consumer-Members](#)
- Article: [Here Comes the \(Electric\) School Bus! Early Experience at Electric Co-ops](#)
- Advisory: [Achieving Cooperative Community Equitable Solar Sources Case Study - Orcas Power & Light Cooperative](#)
- Advisory: [Achieving Cooperative Community Equitable Solar Sources Case Study – Oklahoma Electric Cooperative](#)
- Advisory: [Rural Area Distributed Wind Integration Network Development Case Study – San Isabel Electric Cooperative](#)
- Advisory: [Rural Area Distributed Wind Integration Network Development Case Study – Kotzebue Electric Association](#)
- Advisory: [Rural Area Distributed Wind Integration Network Development Case Study – Cuming County Public Power District](#)
- Advisory: [Rural Area Distributed Wind Integration Network Development Case Study – Fox Islands Electric Cooperative](#)
- Advisory: [Rural Area Distributed Wind Integration Network Development Case Study – Homer Electric Association](#)
- Advisory: [Rural Area Distributed Wind Integration Network Development Case Study – Iowa Lakes Electric Cooperative](#)
- Advisory: [Rural Area Distributed Wind Integration Network Development Case Study – Lake Region Electric Cooperative](#)
- Advisory: [Rural Area Distributed Wind Integration Network Development Case Study – Rural Electric Convenience Cooperative](#)
- Advisory: [A Unique Participation Opportunity: Rural Area Distributed Wind Integration Network Development \(RADWIND\) Project – Year 2](#)
- Advisory: [Run on Less – Electric: A Medium and Heavy-Duty Electric Truck Demonstration](#)
- Advisory: [Run on Less – Electric: Electric Truck “Bootcamp” Educational Series](#)
- Advisory: [Locating Electric Vehicles in Co-op Service Territories](#)
- Advisory: [Preparing for Public Electric Vehicle Charging Infrastructure Rollouts](#)
- Advisory: [Distributed Wind Toolkit](#)

Generation, Environment, & Carbon

Contact for Questions:

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

- Article: [Summary of CEATI Report: Methodologies to Maximize the Value and Amount of Energy Storage: Economic and Technical Evaluation – Part 1 of 3: Maximizing Energy Storage Value: Literature Search](#)
- Article: [Summary of CEATI Report: Methodologies to Maximize the Value and Amount of Energy Storage: Economic and Technical Evaluation – Part 2 of 3: Maximizing Energy Storage Value: Market Research](#)
- Article: [Summary of CEATI Report: Methodologies to Maximize the Value and Amount of Energy Storage: Economic and Technical Evaluation – Part 3 of 3: Maximizing Energy Storage Value: Valuation Tool and Case Study](#)
- Article: [Carbon Capture: Which Post-Combustion Technology Could Meet a Co-op's Needs](#)
- Article: [Carbon Use and Storage: What Do Cooperatives Need to Know?](#)
- Article: [Summary of the CEATI Thermal Generation Interest Group's \(TGIG\) Report: Technologies to Improve Plant Performance: An Industry-Wide Review—Part 1 of 3: Advanced Monitoring and Diagnostic Technologies to Improve Thermal Power Plant Performance](#)
- Article: [Summary of the CEATI Thermal Generation Interest Group's \(TGIG\) Report: Technologies to Improve Plant Performance: An Industry-Wide Review—Part 2 of 3: Inspection and Repair Technologies to Improve Thermal Power Plant Performance](#)
- Article: [Summary: CEATI TGIG Report: Technologies to Improve Plant Performance: An Industry-Wide Review—Part 3 of 3: Asset and Operation Management Technologies to Improve Thermal Power Plant Performance](#)
- Article: [Summary of the CEATI Thermal Generation Interest Group's \(TGIG\) Report: Optimization of Coal-Fired Power Plant Modifications to Improve Cyclic Performance—Part 1 of 4: Coal Plant Cycle Operation: Equipment Failure, Damage Mechanisms, and Effects on Forced Outages](#)
- Article: [Summary of the CEATI Thermal Generation Interest Group's \(TGIG\) Report: Optimization of Coal-Fired Power Plant Modifications to Improve Cyclic Performance—Part 2 of 4: Coal Plant Cycle Operation: Major Equipment Modifications](#)
- Article: [Summary of the CEATI Thermal Generation Interest Group's \(TGIG\) Report: Optimization of Coal-Fired Power Plant Modifications to Improve Cyclic Performance—Part 3 of 4: Coal Plant Cycle Operation: Balance of Plant Modifications](#)
- Article: [Summary of the CEATI Thermal Generation Interest Group's \(TGIG\) Report: Optimization of Coal-Fired Power Plant Modifications to Improve Cyclic Performance—Part 4 of 4: Coal Plant Cycle Operation: Modification Cost Estimates and Economic Value](#)
- Article: [Summary of CEATI TGIG Report: Optimization of Natural Gas Fired Combined Cycle Gas Turbines Power Plant Modifications to Improve Cycling Performance—Part 1 of 4: NGCC Plant Cycle Operation: Cycling Effects on Forced Outage Hours and Modifications Requiring Extensive OEM Involvement](#)

- Advisory: [DOE Issues Funding Opportunity for Front-End Engineering Design Studies for Carbon Capture Systems at Industrial Facilities and Natural Gas Plants](#)
 - Advisory: [New Decommissioning Library Offers Co-ops a Wealth of Practical Information](#)
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Resource Adequacy & Markets

Contact for Questions:

Michael Leitman, Director - System Optimization – Michael.Leitman@nreca.coop

- Factsheet: [America's Cooperative Electric Utilities The Nation's Consumer Owned Electric Utility Network](#)
 - Factsheet: [Utility Privatization Case Study: Tyndall Air Force Base](#)
 - Advisory: [Co-ops Continue to Lead Industry in AMI](#)
 - Advisory: [Co-op Fuel Mix Update \(2018 data\)](#)
 - Advisory: [Co-ops Added Record New Renewable Capacity in 2020](#)
 - Advisory: [Rural Energy Storage Deployment Program \(RESDP\) Case Study: Poudre Valley REA Microgrid at Red Feather Lakes](#)
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Transmission and Distribution

Contacts for Questions:

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

- Article: [The Role of Smart Inverters as a Grid Asset in Future Distribution Systems: Field Testing with Electric Cooperatives](#)
 - Advisory: [EPRI Papers on DER and Interconnections](#)
 - Advisory: [Mobile Substation Pool Offers Savings for Cooperatives](#)
 - Advisory: [Power Equipment Oil Analysis: Lab Performance / Sampling Techniques Study](#)
 - Advisory: [Overview of the CEATI Design Guide for Station Electromagnetic Interference Protection](#)
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Management Services and Consulting

Contact for Questions:

Ginny Beauchemin, Managing Director - Business Optimization – Ginny.Beauchemin@nreca.coop

- Advisory: [Addressing Risk in the Cooperative Part 1 of 3: What is Risk?](#)
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