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TechUpdate

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Ribbon Cutting Ceremony for Wyoming Integrated Test Center for Carbon Research

May 16, approximately 150 attendees gathered at the Wyoming Integrated Test Center at Basin Electric's Dry Fork plant in Gillette, WY for a ribbon cutting ceremony. This event commemorates the opening of the plant's newly renovated test bays for the five finalists of the \$20 million COSIA NRG Carbon XPRIZE competition to start their onsite research regarding the capture and utilization of carbon dioxide. "As co-ops across the nation work to meet tomorrow's energy needs, this project is poised to crack the carbon code and create a new future for managing carbon dioxide emissions," said Jim Spiers, NRECA Senior VP of Business and Technology Strategies. "The Wyoming ITC is proof that public-private partnerships spur innovation."

- [Video of Ribbon Cutting Ceremony](#)
- [Op Ed by Wyoming Governor Matthew Mead](#)
- [Additional Resources on Wyoming ITC-C](#)
- Contact for Questions: [Dan Walsh](#)

Beneficial Electrification for Natural Gas Pipeline Compressor Stations

Advancements in electric technologies continue to create new opportunities to use electricity as a substitute for on-site fossil fuels and achieve increased efficiency and control. Such Beneficial Electrification offers local economic development, enhances the quality of the product used by the customer, and benefits the electric system. [NRECA's article series](#) on this topic presents various beneficial electrification applications for C&I customers that help local businesses stay competitive and strengthen the cooperative presence in the community. Our newest case study examines the opportunity for beneficial electrification with natural gas pipeline compressor stations:

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

How the North Dakota Alliance Implemented Strategic Sourcing

UPCOMING EVENTS

- [Webinar: Compensating & Recovering Costs of Distributed Energy Resources](#) – June 6
- [AREGC Conference](#) – June 24-27, Lanier Islands, GA
- [Community Storage Initiative Forum to Discuss Beneficial Electrification](#) – July 18-19, Washington, DC (Save the date... more information coming soon!)
- [Electrification 2018](#) – August 20-23, Long Beach, CA

BUSINESS AND TECHNOLOGY
SOLUTIONS PORTFOLIO



PROVIDING SOLUTIONS
AND ACTIONABLE ADVICE

The Innovative Energy Alliance Cooperative consists for four distribution cooperatives serving more than 30,000 member-consumers in North Dakota. Their expansive 18,400 square miles of adjoining territory and low consumer density of only at most 2.3 meters per mile presents challenges in finding economic ways to effectively serve their members and remain competitive. This new advisory begins a series of case studies looking at ways cooperatives are working together to achieve benefits through strategic sourcing:

- [Advisory](#)
- [Strategic Sourcing Topic](#)
- Contacts for Questions: [Paul Breakman](#) or [Lauren Khair](#)

Co-op Broadband Initiatives

There is a demand in unserved and underserved locations for broadband services, which are essential to community development, economic growth and prosperity, and educational attainment. Co-ops are taking a lead in meeting this need with projects to install broadband to benefit their member-consumers. The newest in our [NRECA case study series](#) highlights the initiatives of Orcas Power and Light and Rock Island Communications in Washington state.

- [Advisory](#)
- Contact for Questions: [Paul Breakman](#)

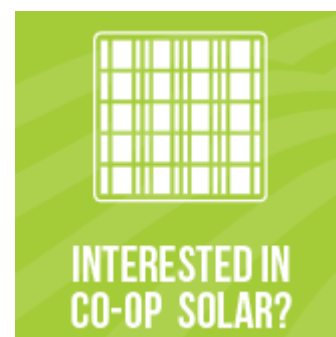
The Current State of Efficiency Standards for Transformers

Selection of distribution transformers has historically varied by utility according to their particular concerns and needs. These purchases have also been influenced by standards set by the DOE, in aim of preventing utilities from making purchases purely based on economic evaluation and without regard to losses. This new advisory reviews the current state of transformer standards, and NRECA's work on behalf of America's Electric Cooperatives to represent our industry's needs and concerns within stakeholder forums and promote better approaches for addressing future transformer efficiency standards.

- [Advisory](#)
- Contacts for Questions: [Robert Harris](#) and [Thomas Gwinn](#)

What Co-op CEOs and GMs Have to Say About Cybersecurity

CEOs and GMs from six of the RC3 Self-Assessment Research Program cooperatives participated in a panel discussion at the CEO Close-Up Conference entitled *Protect This House: What Co-ops Can Do to Build a Defense Against Cyber Threats*. Following the panel discussion, the panelists joined the audience to facilitate table discussions with other co-op CEOs and



GMs on cybersecurity. This advisory reviews highlights from the panel and roundtable discussions.

- [Advisory](#)
 - Contact for Questions: [Cynthia Hsu](#)
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Substation Resiliency for Non-Utility Triggered Events

Power outages that occur from causes beyond the utility's control, including extreme weather events, cyber attacks, and high impact, low-frequency events, are facing increased industry scrutiny. Facility owners must be proactive in developing facilities that are resilient to disturbances, while system operators must be adequately prepared to implement emergency restoration plans. This CEATI report identifies vulnerabilities of substation facilities to system outages, a process to evaluate substation susceptibility, and guidelines for design improvements to mitigate impacts of such events.

- [Report](#)
 - Contacts for Questions: [Robert Harris](#) and [Tom Lovas](#)
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Electrification 2018 Conference

Join us August 20-23 in Long Beach, CA for the inaugural Electrification 2018 International Conference & Exposition. NRECA is an official supporter of this conference hosted by EPRI, which will bring together utility leaders, researchers, academia, vendors, economic development groups, and energy users from around the globe to discuss the biggest issues and opportunities with electrification.

- [Advisory](#)
 - Contact for Questions: [Keith Dennis](#)
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Opportunities to Work with the Military

The Department of Defense (DoD) is one of the largest energy consumers worldwide and the single largest energy consumer in the United States. Several cooperatives work closely with U.S. military installations, providing electricity and partnering on projects. With the release of the Request for Information from the Defense Logistics Agency/United States Air Force earlier this year, now is a perfect time to discuss new opportunities for collaboration with the military. This new advisory discusses ways co-ops can benefit through energy projects with the military.

- [Advisory](#)
 - Contact for Questions: [Lauren Khair](#)
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Save the Date: Community Storage Initiative

Forum to Discuss Beneficial Electrification - July 18-19

The NRECA-supported Community Storage Initiative (CSI) is seeking input from members on the prospect of evolving our existing CSI efforts to better incorporate the broader "Beneficial Electrification" opportunity during a forum on July 18-19 in Washington, DC. We are inviting members to attend a day and a half meeting to help shape the CSI initiative moving forward in light of advancements in electric technologies that continue to create new opportunities for the wise use of to use electricity, or *Beneficial Electrification*. More information will be forthcoming. In the meantime, ***please save the date for the Community Storage Initiative Forum to Discuss Beneficial Electrification, to be held July 18-19 in Washington DC.*** For more information, please contact Keith Dennis, Sr. Director of Strategic Initiatives, at keith.dennis@nreca.coop

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4301 Wilson Blvd. Arlington, VA 22203 | Tel: 703-907-5500 | E-mail: nreca@nreca.coop

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