



Touchstone Energy®
Cooperatives
of Iowa

● JUNE 2022

iowa

ELECTRIC COOPERATIVE LIVING

**Nominate a
community volunteer**

**Building toward an
EV mobile future**

Ice cream recipes

Win an electric ice cream maker ► See Page 3

CONTENTS



6



8



10

VOLUME 75 • ISSUE 6

3

STATEWIDE PERSPECTIVE

Be aware of utility
phone scams

3

EDITOR'S CHOICE CONTEST

Win an electric
ice cream maker

14

COMMITMENT TO COMMUNITY

Nominate a
community volunteer

15

OUT BACK

Bean walking
etiquette

EDITOR
Ann Foster Thelen

ART DIRECTOR
Joel Clifton

**IAEC EXECUTIVE
VICE PRESIDENT**
Chuck Soderberg

**IAEC DIRECTOR OF
COMMUNICATIONS**
Erin Campbell

IAEC BOARD OF DIRECTORS
Roger Solomonson, District 3 – President
Gordon Greimann, District 6 – Vice President
Kenneth VandenBerg, District 1 – Secretary/Treasurer
Neal Heldt, District 7 – Asst. Secretary/Treasurer
Tony Lem, District 2
Jim Miller, District 5
Deena Moore, District 4
Marion Denger, Prairie Energy Cooperative – NRECA Representative
Brian Krambeer, MiEnergy Cooperative – Managers' Representative

Iowa Electric Cooperative Living magazine (ISSN: 1935-7176) is published monthly by the Iowa Association of Electric Cooperatives, a not-for-profit organization representing Iowa's member-owned local electric cooperatives. Association address: 8525 Douglas Ave., Suite 48, Des Moines, IA 50322-2992. The phrase ***Iowa Electric Cooperative Living*** is a mark registered within the state of Iowa to the Iowa Association of Electric Cooperatives. The magazine does not accept advertising.

Editorial Office
8525 Douglas Ave., Suite 48, Des Moines, IA 50322-2992. Telephone: 515-276-5350.

Email Address
editor@ieclmagazine.com. *Iowa Electric Cooperative Living* magazine does not assume responsibility for unsolicited items.

Website
www.ieclmagazine.com

Postmaster
Send address changes to *Iowa Electric Cooperative Living* magazine, 8525 Douglas Ave., Suite 48, Des Moines, IA 50322-2992. Periodicals Postage Paid at Des Moines, Iowa, and at additional mailing offices.

Change of Address
Every local electric cooperative maintains an independent mailing list of its members, so please send your change of address directly to your local electric cooperative's office. *Iowa Electric Cooperative Living* magazine cannot make an address change for you.

© Copyright 2022, Iowa Association of Electric Cooperatives. No portion of the editorial, photographic or other content of *Iowa Electric Cooperative Living* magazine or its website may be reproduced without written permission of the editor.



ON THE COVER

Special thanks to Lana Van Engen, an Osceola Electric Cooperative member-consumer, for supplying this month's cover image. Submit high-resolution photos for consideration to editor@ieclmagazine.com. You could win \$100!

BE AWARE OF UTILITY PHONE SCAMS THIS SUMMER

BY CHUCK SODERBERG



"Your electric bill is past due, and we will cut off power to your home in the next hour if you don't pay us over the phone immediately!"

Have you ever received a

threatening call like this from someone claiming to be from your local electric cooperative? Would you know what to do if you received a call like this?

This spring, several of Iowa's electric cooperatives noticed increased activity from utility scammers contacting member-consumers in their service areas. These phone scammers would often appear to be calling from local numbers and claim to be from the local electric cooperative. Sometimes, the calls included prerecorded messages.

In almost all the calls, the scammers threatened the innocent person on the other end of the line, demanding immediate payment to prevent disconnection of electric service.

We want to remind readers that your local electric co-op would never contact you out of the blue to demand immediate payment or threaten immediate disconnection. If you receive a suspicious call, text or email from someone claiming to be from the co-op, please contact your electric co-op office directly by using the phone number on a recent bill or on the co-op's website to verify the communication.

The best defense against a utility scammer is an educated consumer; follow these tips from Utilities United Against Scams to protect yourself from a potential scam.

Protect personal information

Never provide or confirm personal information (Social Security number, date of birth, etc.) or financial information (banking account

information, debit or credit card information) to anyone initiating contact with you and claiming to be from your local electric co-op. Never give out information or provide any payment to any callers or unexpected individual(s) appearing at your door claiming to represent your co-op. Your local co-op will already have your relevant personal and account information.

Take your time

Do not be rushed. If you receive a call, text, email or visitor saying you have to pay your bill immediately to avoid disconnection, tell them you would like to verify that they are a legitimate co-op representative by calling a verified number for the local co-op office.

Beware if a representative exhibits impatience, annoyance or anger when you question their authority. While a scammer will discourage you from hanging up and calling the number on your utility bill, a real co-op representative will encourage you to do so for your own peace of mind.

Always ask questions

Ask the person contacting you to provide your account number, your last payment amount, date of payment and their employee identification number. If they are a legitimate utility representative, this information will be readily accessible. If not, hang up or shut the door, and call your utility directly to report the suspicious activity.

Contact your utility directly

If you receive a suspicious call or visit, please contact the local police and your electric co-op immediately. Share details that the scammer told you, which might aid in a possible criminal investigation.

For more tips, download a free copy of the *Consumer's Guide to Imposter Utility Scams* at www.utilitiesunited.org. Remember, contact your local electric co-op directly if you receive a suspicious call, text, email or visit from someone claiming to represent the utility.

Chuck Soderberg is the executive vice president and general manager of the Iowa Association of Electric Cooperatives.

EDITOR'S CHOICE CONTEST

Win an electric ice cream maker!

When it comes to homemade ice cream, "the more, the better" is the motto of this family-friendly machine. Ideal for entertaining, it makes two quarts of your favorite frozen dessert in a single batch (in just 25 minutes). The clear plastic lid has an opening for adding mix-ins like chocolate chips and nuts.

Visit our website and win!

Enter this month's contest by visiting www.ieclmagazine.com no later than June 30. You must be a member of one of Iowa's electric cooperatives to win. There's no obligation associated with entering, we don't share entrant information with anyone and multiple entries from the same account will be disqualified. The winner of the electric string trimmer from the April issue was William Kelly, Prairie Energy Cooperative.



ENTER ONLINE BY JUNE 30!

IOWA ELECTRIC CO-OP REPRESENTATIVES ADVOCATE FOR RURAL IOWA PRIORITIES IN WASHINGTON

In May, a group of two dozen Iowa Rural Power advocates participated in the National Rural Electric Cooperative Association's (NRECA) 2022 Legislative Conference in Washington, D.C. After a cancellation in 2020 and a virtual format in 2021, the Iowa group was excited to be back in person connecting with other states, members of Congress and staff.

In addition to participating in NRECA programming, the group attended productive meetings with Sen. Chuck Grassley and Sen. Joni Ernst, discussing the importance of an all-of-the-above energy strategy, direct pay tax credits, RUS repricing legislation, supply chain concerns, rural economic development initiatives and Farm Bill reauthorization.

While a scheduled district work period in the U.S. House meant that Iowa's four representatives were back home in Iowa, it was a great opportunity for the rural power group to spend time with Congressional staff where they shared priorities and the importance of cooperative support in Iowa's communities.



ENTER TO WIN

**WIN \$100 FOR A
PUBLISHED COVER PHOTO**

We're always looking for stunning images for the cover of *Iowa Electric Cooperative Living* magazine. If we select your photo for a cover,

we'll award you with \$100. The photos must be clear, of an Iowa place served by an electric cooperative and in high resolution. To be considered, email photos to editor@ieclmagazine.com with "Cover Submission" in the subject line.



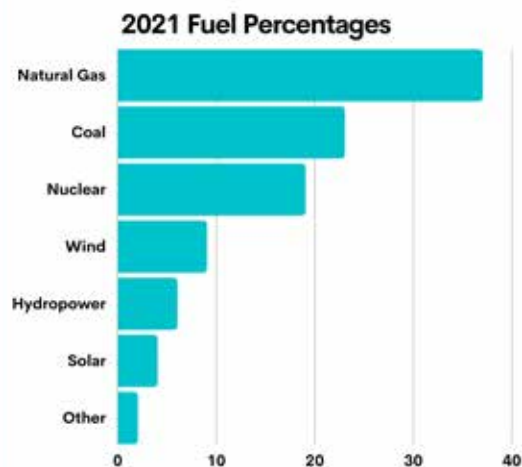
DID YOU KNOW?



Powerful Energy Sources

Nationally, electric cooperatives and other electric utilities provide power generated from a variety of fuel sources.

This diverse fuel mix supplies Americans with affordable, reliable electricity.



Source: U.S. Energy Information Administration

PREVENTING COSTLY COPPER THEFT

Strange things happen when the global price of copper skyrockets to record levels like it did this year.

An Arkansas hospital faced a possible delay in opening when thieves stole copper wiring at a construction site, hundreds of West Virginia homes and businesses lost phone and Wi-Fi service when a copper-filled cable was stolen from the region's internet provider, and 700 streetlights went out in Los Angeles when thieves made off with 370,000 feet of copper wire.

Copper is beneficial. It's flexible and conducts electricity well. It's a staple for utilities and is used to make nearly every type of electronic device. Copper's nontoxic nature and corrosion resistance also make it useful in plumbing.

A risk to public safety

Because it is so useful, there's a lot of copper around, and over the decades, when prices have gone up, the thieves have come out. Copper theft can have consequences beyond just the inconvenience of stolen property.

According to an FBI report, copper thieves threaten critical infrastructure by targeting electrical substations, cell towers, telephone lines, railroads, water wells, construction sites and vacant homes for lucrative profits. Copper theft from these targets



**YOU CAN HELP
PREVENT
COPPER
THEFT!**

If you see suspicious activities, please call. Together, we can cut down on copper theft and other crimes that threaten public safety!

CRIME STOPPERS
800-452-1111

disrupts the flow of electricity, telecommunications, transportation, water supply, heating, and security and emergency services. It also presents a risk to both public safety and national security.

These crimes can result in death, with regular reports of thieves being electrocuted while removing wire from utility poles or substations. It also threatens the lives of utility workers by disconnecting critical safety devices.

Preventing copper theft

Laws have been toughened over the

past 20 years, and now all 50 states have statutes in place to reduce copper theft. Many of those laws focus on ensuring scrap metal dealers know the source of the copper they're buying. Companies have developed ways to secure wiring in air conditioning units and created coatings that can identify stolen property. Some copper products are being stamped with identifying codes, and video surveillance is being added to areas with a lot of copper.

You can also help. If you see something suspicious, call 911.

QUOTE OF THE MONTH

"From Alaska to North Carolina, electric co-ops established the first rural microgrids, the first electric school bus program, and co-ops have accelerated community solar development faster than any segment of the electric sector. Cooperatives have developed more than 50 energy storage projects, ranging from residential batteries to large utility-scale projects paired with renewable generation, and many are working to ensure their communities aren't left behind when it comes to electric vehicle (EV) charging."

– Jim Matheson is the CEO of the National Rural Electric Cooperative Association

BRUCE NUZUM TAKES THE STATEWIDE ECONOMIC DEVELOPMENT HELM

BY ANN FOSTER THELEN



Bruce Nuzum (right) presents check at loan closing to Mike and Marian Verdon, owners of Trinity Fabricators, Inc. for equipment upgrades in their facility near New Albin.



Building on a 25-year career with the Iowa Area Development Group (IADG), Bruce Nuzum was recently named president of the organization

following Rand Fisher's retirement in January. Founded in 1985, IADG is the business and economic development organization for its sponsors and partners, including more than 220 member-owned electric cooperatives, municipal utilities and independent telecommunication companies throughout the state.

Nuzum is originally from Iowa and graduated college during the farm crisis of the mid-1980s. Those trying times prompted him to move out of state. After a few years away, he returned to

Iowa to be closer to family and began working in economic development in Jasper County. In 1997, Nuzum joined IADG and most recently served as senior vice president of finance and operations.

We sat down with Nuzum to learn more about him, including his vision for IADG and rural economic development efforts in Iowa.

Q: What drew you to economic development work?

I have always had a strong sense of community and involvement, which I attribute to my grandfather. He was a volunteer leader, and through his business, he was actively engaged in his small rural community. His involvement demonstrated the importance of a partnership between business and community for both to be successful. When I had the opportunity to lead a

county development organization in an area that included my hometown, it seemed like a natural fit.

Throughout my career, what has kept me in economic development is the variety of projects and the satisfaction of being a part of a team helping to bring jobs and opportunities to rural Iowa.

Q: When it comes to economic development in electric cooperative-served areas, what do you feel are Iowa's strengths?

Iowans have a strong work ethic and a sense of community that you don't get everywhere else. Plus, they are used to thinking creatively to solve problems. That's why so many inventions come from farm workshops or out of the garage. These traits make for a great workforce for businesses in rural areas. Combine this with the investment our utility partners have made in electric

and broadband infrastructure and commercial and industrial parks to serve their members and communities, and it makes rural Iowa an excellent place for business.

Q: While you are not new to IADG, you're new to this role. What are the organization's short- and long-term goals?

IADG's core mission is to help businesses expand in the communities and territories of our utility sponsors. One of our primary goals is working with our partners to help existing companies be successful. We are a connecting point to financial programs and other services, which can help their business operations.

Another goal is to promote our members and the available sites and buildings in their service territories in the most effective ways possible to generate leads and bring new businesses and job opportunities to rural communities. Through various marketing and programming activities, including prospecting growing companies, exhibiting at trade shows and using our website and other online databases, we work toward this goal.

Economic development is about creating future success and developing places for businesses to expand. A long-term goal is to help identify and access financial tools, which can help our members continually reinvest in themselves by continuing to develop industrial parks and shell buildings in partnership with local development organizations.

We also strive for continuous improvement through training and education for our staff and utility partners to ensure we are ready to bring tools to the table when an opportunity presents itself.

Q: Electric cooperatives are grounded in "commitment to community." How does this approach factor into what IADG does day in and day out?

We assist our members with community development through the Rural Economic Development Loan & Grant (REDL&G) Program. The electric co-op helps a nonprofit entity

with its first loan to build its Revolving Loan Fund (RLF). Our members have had a tremendous impact by bringing low-cost funding to assist community projects and have built \$76 million of locally controlled funding for rural Iowa. IADG plays an active role in helping utilities apply for these funds and offering ongoing administration support for the RLF.

Q: What are some of the key industries IADG works with, which translate into opportunities for rural Iowa?

Our target industries include agriculture, ag processing, advanced manufacturing, warehousing and information technology. IADG is especially known for its work with agriculture and ag processing – everything from food production and further processing, including the manufacturing of biofuels.

Q: What are some economic development trends that are exciting for Iowa?

One of the big trends in the industry is the move to automation and data-driven processes – often referred to as Industry 4.0. Technology continues to advance, and the increasing capabilities of robots and computer-driven equipment make production more efficient. These increases in capacity and efficiency are essential for all businesses, especially rural businesses dealing with workforce shortages. With the partnerships between businesses and communities, there are great opportunities for our utility partners to help assist with the move to

FUN FACTS:

What is the best piece of advice you've received?

When I started my career, someone told me that economic development was 95% preparation and 5% perspiration. The longer I do this, the more I agree that you must be prepared and ready to jump when an opportunity presents itself.

What do you love most about Iowa?

It's where my family is, so that makes it home. But I have also had the opportunity to live elsewhere and travel to other parts of the world. It makes me appreciate the people who live here and how we all look out for each other.

Favorite sports team?

I grew up a Hawkeye, but I'm an equal opportunity cheerer.

Favorite Iowa restaurants?

A few spots come to mind:
Darrell's Place in Hamlin
Whatcha Smokin' BBQ in Luther
The Landmark Bistro in Grundy Center

Favorite Iowa event?

Iowa State Fair, of course!

automation at rural businesses through RLFs and other programs where IADG can help with the connections.

Ann Foster Thelen is the editor of Iowa Electric Cooperative Living magazine.

REDL&G PROGRAM FUNDS

In 2021, IADG members received nearly \$8.3 million from the REDL&G program to help Iowa's economy. This funding helped spur \$51.9 million of new capital investment and created and retained 928 jobs. Cumulatively, IADG members have received 386 REDL&G awards totaling \$166.5 million since the program was created.

Utilizing REDL&G, IADG members have had a tremendous impact on Iowa. These cumulative awards have been part of

\$1.06 BILLION



of new investment in rural communities and have created or retained

20,529 JOBS

ICE CREAM

RECIPES

OLD FASHIONED CRANK ICE CREAM

- 6 large egg yolks, whisked
- $\frac{3}{4}$ cup sugar
- dash salt
- $1\frac{1}{2}$ cups whole milk
- 2 cups heavy cream
- 1 teaspoon vanilla extract
- ice
- 2 cups rock salt

Blend egg yolks, sugar and salt until smooth. In large sauce pan, mix milk and cream, simmer until small bubbles form and mixture is hot but not boiling. Add egg mixture. Reduce heat, stir about 5 minutes or until 175 degrees F – DO NOT BOIL. Remove from heat and place in a bowl. Add vanilla extract. Chill the mixture before filling ice cream canister about half full. Place ice and rock salt around the maker. Keep adding ice and rock salt as it melts. Crank the ice cream maker and when it cannot be turned, the ice cream is done. Add any toppings as desired.

Reta Janssen • Doon • Lyon Rural Electric Cooperative

CARAMEL DELIGHT

- $1\frac{1}{2}$ cups flour
- 1 cup quick rolled oats
- $\frac{1}{2}$ cup brown sugar
- $1\frac{1}{2}$ cups pecans, chopped
- 1 cup butter, melted
- 1 6-ounce jar caramel topping
- $\frac{1}{2}$ gallon vanilla ice cream, softened

Combine flour, oats, brown sugar and nuts, then stir in melted butter. Spread in a thin layer on the bottom of a baking sheet. Bake at 350 degrees F for 20 minutes until lightly browned. Cool and crumble. Place half the oat mixture in the bottom of a 9x13-inch pan. Warm caramel slightly in the microwave then smooth over oat mixture. Slice ice cream and place slices in an even layer over the oats and caramel. Top with remaining half of the oat mixture. Freeze until firm, at least 24 hours. Serves 15

Jill Miller • Nevada • Consumers Energy

CHOCOLATE ICE CREAM ROLL

- 4 eggs, separated
- $\frac{3}{4}$ cup sugar plus 1 tablespoon, divided
- $\frac{1}{2}$ cup flour, unsifted
- $\frac{1}{3}$ cup cocoa
- $\frac{1}{4}$ cup sugar
- $\frac{1}{2}$ teaspoon baking soda
- $\frac{1}{4}$ teaspoon salt
- $\frac{1}{3}$ cup water
- 1 teaspoon vanilla
- 1 quart ice cream, softened

Line a 10½x15½x1-inch jellyroll pan with aluminum foil and generously grease the foil. Beat egg yolks 3 minutes on medium speed. Gradually add $\frac{1}{2}$ cup sugar; continue beating for 2 minutes. In a separate bowl, combine flour, cocoa, $\frac{1}{4}$ cup sugar, baking soda and salt. Add alternately with water on low speed, just until the batter is smooth. Add vanilla and set aside chocolate mixture. Beat egg whites until foamy. Add 1 tablespoon sugar and beat until stiff peaks form. Carefully fold into the chocolate mixture. Spread batter evenly into the prepared pan. Bake at 375 degrees F for 14-16 minutes, or until the top springs back when touched lightly. Invert onto a slightly dampened towel and carefully remove foil. Immediately roll the cake and towel together from the narrow end of the cake. Let stand 1 minute and unroll, then re-roll, omitting the towel. Cool completely on wire rack. Unroll the cake and spread with softened ice cream and reroll. Freeze the cake immediately. Cut into slices to serve. Serves approximately 15

Joan Androy • Logan
Harrison County Rural Electric Cooperative

LEMONY ICE CREAM PIE

- 1 quart vanilla ice cream, softened
 - 1 6-ounce can frozen lemonade concentrate, partially thawed
 - 1 9-inch graham cracker crust
- Optional garnish: fresh raspberries, lemon slices, fresh mint springs

Stir together ice cream and lemonade concentrate until blended. Spoon into graham cracker crust and freeze 2 hours or until firm. Garnish if desired.

Debra Peterson • Albia
Chariton Valley Electric Cooperative

FRIED ICE CREAM PIE

- ¼ cup butter
 - 1½ cups crushed cornflakes (measure after crushing)
 - ¼ cup sugar
 - ½ teaspoon ground cinnamon
 - 1 quart vanilla ice cream
- Toppings: honey, chocolate syrup, caramel, whipped topping, cherries

In a large skillet, melt butter on medium heat. When butter is completely melted stir in cornflakes, sugar and cinnamon. Stir continuously on medium heat for 4-5 minutes or until cornflakes turn color. Cool and let ice cream soften. Press two-thirds of the cooled cereal mix into a pie pan. Spoon softened ice cream over cereal crust and smooth. Sprinkle remaining one-third of cereal mixture on top. Cover with foil and freeze 6 hours. Before serving, top with honey, chocolate syrup, caramel, whipped topping and cherries. Serves 10-15

Nan Jurgens • Thornton
Franklin Rural Electric Cooperative

SHOWER DESSERT (LIME SHERBET FREEZE)

- 3 cups Ritz Crackers, crushed, divided
- 1 cup plus 8 tablespoons sugar, divided
- 8 tablespoons butter, melted
- 1 quart vanilla ice cream, softened
- 1 quart lime sherbet, softened
- 4 tablespoons fresh lemon juice
- 6 tablespoons butter
- 2 eggs, well-beaten

Mix 2½ cups crackers with 8 tablespoons sugar and 8 tablespoons melted butter. Pat the mixture firmly in a 9x13-inch cake pan. Mix ice cream and sherbet, then add on top of the crust. Freeze. Cook lemon juice, 1 cup sugar, 6 tablespoons butter and eggs over low heat until thick, stirring constantly. Let cool, then spread over frozen ice cream mixture. Sprinkle remaining ½ cup crackers over top. Freeze. Remove 10-15 minutes before serving. Serves 12-15

Rhonda Poppe • Ionias
Butler County Rural Electric Cooperative

BUTTER PECAN ICE CREAM

- 2 cups pecans, chopped
- 3 tablespoons butter
- 3 12-ounce cans evaporated milk
- 2 3.75-ounce packages instant vanilla pudding
- 1 cup sugar
- 1 teaspoon vanilla
- 1½ quarts 2% milk

Sauté pecans in butter on low heat, stirring constantly for about 5 minutes or until toasted. Set aside to cool. Combine remaining ingredients, mixing well. Pour into 1½ to 2-gallon freezer can with dasher. Freeze about 10 minutes or until ice cream starts to thicken. Remove dasher and add pecans. Stir into the bottom. Return dasher and freeze until firm. Let soften about an hour. Serves 12-15

LuAnn Lauters • Garner • Prairie Energy Cooperative

PUMPKIN ICE CREAM

- 21-22 gingersnaps
- 1 cup canned pumpkin
- ½ cup sugar
- ½ teaspoon salt
- ½ teaspoon cinnamon
- ¼ teaspoon nutmeg
- ½ cup pecans, chopped
- 1 quart vanilla ice cream

Arrange 19-20 whole gingersnaps over bottom and sides of 9-inch pie plate. Crush remaining gingersnaps. Combine pumpkin, sugar, salt and spices. Mix well. Stir in pecans. Chill in refrigerator 2 hours. Fold chilled mixture into softened ice cream. Spoon into the gingersnap-lined pie plate. Sprinkle gingersnap crumbs over top and freeze.

Marilyn O'Brien • Geneva
Franklin Rural Electric Cooperative

WANTED:

GAME DAY RECIPES

THE REWARD:

\$25 FOR EVERY ONE WE PUBLISH!

Deadline is June 30

Please include your name, address, telephone number, co-op name and the recipe category on all submissions. Also provide the number of servings per recipe.

EMAIL: recipes@ieclmagazine.com

(Attach your recipe as a Word document or PDF to your email message.)

MAIL: Recipes

Iowa Electric Cooperative Living • 8525 Douglas Ave., Suite 48, Des Moines, IA 50322-2992



ELECTRIC CO-OPS ARE BUILDING TOWARD AN EV MOBILE FUTURE

BY DERRILL HOLLY



With dozens of electric SUVs, pickup trucks and vans scheduled to debut over the next few years, public charging availability will become a priority for consumers, especially in rural areas where stations are scarce.

Utilities, including locally owned electric cooperatives, will be serving new EV loads and extending the reach of public charging networks now under development or proposed for major

transportation corridors.

“Electric vehicles are evolving rapidly and, as they do, use and charging patterns are shifting and consumers are getting a better understanding of how they can use the vehicles,” says Brett Smith, director of technology for the Center for Automotive Research. The non-profit organization conducts independent research on behalf of the global mobility industry.

Understanding charging infrastructure needs

Still, one of the major challenges facing market acceptance remains a lack of charging infrastructure in many parts of the country. As of December 2021, there were about 113,000 charging ports available at 46,090 public charging stations nationwide.

“You’re going to see the need to really invest in infrastructure over the next

HOW IS IOWA CHARGING UP?

According to Iowa Department of Transportation (DOT) and the Iowa Economic Development Authority, nearly 6,000 EVs and hybrids are registered in Iowa.

Polk, Dallas, Linn, Johnson and Scott are the top five counties for EV registration.

Anyone with an EV in Iowa must pay a special registration fee in addition to the annual vehicle registration fee to

the Iowa DOT. Beginning Jan. 1, 2022, the battery electric (BEV) fee is \$130 and the plug-in hybrid electric (PHEV) is \$65.



Plugshare is one of the most accurate EV charging station maps. Drivers can download a free app or visit www.plugshare.com to find charging stations, leave reviews and connect with other plug-in owners.

5 to 10 years,” says Smith. He adds that some buyers who have the option of home charging have not reached the comfort level essential to use EVs for longer trips.

“They don’t see the infrastructure out there. You’re probably at some point going to need to make it seem like overinvestment, because you have to make the consumer comfortable,” Smith explains.

The federal government estimates that 500,000 public chargers will be needed by 2030, and it is currently investing \$7.5 billion to help build a network of public chargers along major highways and in rural areas. The funding comes from the bipartisan infrastructure bill passed by Congress and signed into law last November.

According to the Department of Energy (DOE), the majority of ports now being deployed for public use are DC fast chargers that provide 60 to 80 miles of range for 20 minutes of charging time, compared to four minutes at the pump for most gasoline-powered vehicles. Smith says it may be feasible to charge EVs up to 80% of capacity in about 15 minutes.

“Whether that’s perfect for everybody or not, if it becomes a standard or an accepted practice, I think people could become comfortable with that,” he says.

Collaborating to build a charging network

The Joint Office for Electric Vehicle Charging and Infrastructure operated by the DOE and the Department of Transportation (DOT) is developing a grant program to help states and local

partners, including electric co-ops, develop public charging facilities.

“The National Rural Electric Cooperative Association (NRECA) and electric cooperatives formed the Community Approach to Vehicle Electrification funding interest group. This group of co-ops is focused on using their detailed knowledge of local needs to address vehicle electrification and charging infrastructure,” says Brian Sloboda, NRECA’s director of consumer solutions.

Across the U.S., many electric cooperatives are already in regular contact with their state DOTs to discuss current and proposed Alternative Fuel Corridors. These corridors will be the areas eligible for federal funding. State DOTs must submit an EV infrastructure plan to the federal government by Aug. 1.

“Electric co-ops can help their state DOTs by identifying areas of the service territory where EV charging infrastructure could be placed in an economic manner that overlaps with current or proposed Alternative Fuel Corridors,” says Sloboda.

Under the bipartisan Infrastructure Investment and Jobs Act, public EV charging infrastructure should be located every 50 miles along major travel corridors, and no more than 1 mile from the highway.

“The focus on local needs will ensure that the college tailgate parties, national parks, highway interchanges, local businesses and county fairs are adequately represented,” says Sloboda. “They will place the

infrastructure where the people and local businesses are.”

Among the greatest concerns are charger availability during peak travel periods, which include holidays, the beginning and end of academic terms, and major sports and entertainment events that attract highway travelers. If wait times at available charging ports average 15 minutes per vehicle, the cumulative effects of several EVs in a waiting line could cause substantial delays.

Bringing ideas into reality

The DOE’s Alternate Fuels Data Center has developed a Station Locator Tool (SLT) mobile app. During the government’s 2021 fiscal year, the SLT site attracted 6 million page views and topped 3,900 downloads. According to the DOE, the site provided more than 1.3 million searches for EV charging stations for the fiscal year.

Energy officials contend that placement of fast chargers at restaurants, shopping malls and other locations where consumers shop, work and play could offer multitasking opportunities. Organizations like the National Association of Convenience Stores are now providing technical assistance and resources to convenience store operators to help promote installation and availability of fast charging equipment to meet growing demand.

While DC fast charging units now range in price from \$10,000 to \$35,000 per unit, federal and state funding initiatives could drive down the costs, increasing incentives to add them.

Derrill Holly writes on consumer and cooperative affairs for the National Rural Electric Cooperative Association.



TIMING IS EVERYTHING WHEN PLANNING A REMODEL

BY MIRANDA BOUTELLE

If you're considering remodeling your home, it's a great opportunity to take care of energy efficiency improvements. Considering energy-efficient materials and projects in your scope of work is a worthy investment because there may be cost savings and convenience in tackling multiple updates at once.

Planning for efficiency is the first step to making it a reality. No matter if you're updating the kitchen, bathroom, basement or exterior of your home, there are opportunities to make thoughtful moves that will benefit your home's energy efficiency now and in the future.

Kitchen remodel considerations

If your kitchen remodel includes new appliances, buy ENERGY STAR®-rated models. ENERGY STAR refrigerators are about 9% more efficient than standard models, and ENERGY STAR dishwashers save both energy and water.

Kitchen faucets have options for multiple flow-rate settings. You can save water by using a lower flow rate on your faucet when washing dishes, vegetables or your hands, but you can change the setting to quickly fill a pot for cooking.

Bathroom remodel tips

If you plan to remodel your bathroom, include a high-performance showerhead. Look for the WaterSense logo for showerheads, faucets and toilets, which ensures the product meets performance and water use standards.

Check the fine print on your existing equipment to see how much you can save. The gallons per minute (GPM) is usually printed on showerheads and faucet aerators, and the gallons per flush (GPF) is usually printed on toilets.

Basement remodel efficiencies

Basements can be air sealed and insulated around the sill plate and rim joist – the framing between the



Photos: Mark Gilliland, Pioneer Utility Resources

concrete foundation and the main level floor. Adding insulated walls around the basement's perimeter ensures a cozy living space and a more comfortable home.

It also may be worth upgrading your electric storage water heater to a hybrid – or heat pump – water heater, which is 70% more efficient than a standard electric model.

If an electric vehicle might be in your future, consider running a power supply while the walls are open. It is much less expensive while you have access.

New siding or exterior paint

The best time to make sure your wall insulation is adequate – or to see if you have wall insulation at all – is when you replace your siding or paint the exterior of your home. Wall insulation saves on energy costs, makes your home more comfortable and reduces outside noise.

Batt insulation, spray foam or foam board are good options if you are removing siding. If you are painting, you can have a contractor blow

insulation into the wall cavities through holes cut into the siding or from inside the house. The holes are then plugged and prepped for paint.

Attic insulation

During any project that takes you into the attic, check insulation levels. Work in the attic can negatively impact attic insulation by crushing it or removing it to access work areas.

If more insulation is needed, air seal and check ventilation. Also, make sure all bath and kitchen fans vent to the exterior of the house. Insulation may not be as pretty as new countertops, but it can help reduce your energy costs and make your home more comfortable.

A little planning during a remodel can go a long way toward improving your home's energy efficiency! It's much more cost effective to tackle energy efficiency projects before your space is finished.

Miranda Boutelle writes on energy efficiency topics for the National Rural Electric Cooperative Association, the national trade association representing more than 900 local electric cooperatives.

LESSONS LEARNED FROM LINE CREWS DURING POWER RESTORATION

BY PAUL WESSLUND

Whether the lights go out because of weather or squirrels, safety comes first for lineworkers. You can learn a lot about power outages and restoration by watching a utility crew at work – from a safe distance, of course.

The first thing you'll notice is the deliberate, careful pace. They deploy signs to alert motorists and mark the work area with orange cones. Always in hardhats and fire-protective clothing, anyone working on a power line pulls on heavy, machine-tested rubber gloves and spreads insulating blankets over the wires.

And there's more you won't see. That morning, they likely huddled at the back of a truck to discuss tasks for the day, with an emphasis on safety protocols. It's a best practice in the industry – so common it's often called a "tailgate meeting" or "toolbox talk."

Making safety a habit

There are a lot of reasons your electricity might go off, with weather by far the leading cause. But to a lineworker, all power outage repairs have one thing in common – safety.

Safety may be common sense, but it's not taken for granted and line crews never compromise on safety. Cooperative leaders make it clear that skipping any safety measure or procedure is a firing offense. Line crews receive constant training to stay up to date with safety protocols.

Replacing and upgrading equipment

The next thing you can learn from a line crew is watching what task they're doing. There's a good chance they're replacing old equipment. Poles and transformers wear out, and failing equipment is one significant cause of power outages. The crew you watch could be restoring an equipment outage, or they might be switching out an old device to prevent a future outage.



There are a lot of reasons your electricity might go off, with weather by far the leading cause. But to a lineworker, all power outage repairs have one thing in common – safety.

You might also see them replacing a downed utility pole, a painstaking process of removing the old and hauling in and raising the new, using trucks specifically designed for the job.

The pole might be down because a motorist ran into it, or it could be weather related. Wind, ice and fires cause about 80% of power outages. One characteristic of those natural disasters is that the damage can be widespread. If one pole is down, many others could be as well. That means crews will be repeating the pole-replacement process, one job at a time.

That's why bringing the lights back on after a major storm with widespread outages can take days or even weeks.

Nature versus power lines

It's also likely the crew you're watching will be trimming trees. Trees are beautiful but a common cause of outages as wind and nearby branches can lead to wires getting knocked to the ground. Electric cooperatives devote a lot of time and resources to urging and

enforcing limits on planting anything too close to power lines.

One fairly common cause of outages that requires crews to make repairs is wildlife. Squirrels and other critters routinely crawl around utility equipment, occasionally making a connection between high-voltage wires. Snakes that slither into an electric substation bring consequences – for lineworkers and the utility. Sometimes crews need to investigate and correct the cause. Often the system will reset itself after only a brief power interruption.

So, what lessons can you learn from lineworkers? Outages can be caused by a variety of factors. Restoring power is an intricate process in a complex utility system. And safety – for crews and the community – will always be the top priority.

Paul Wesslund writes on consumer and cooperative affairs for the National Rural Electric Cooperative Association, the national trade association representing more than 900 local electric cooperatives.

NOMINATE A COMMUNITY VOLUNTEER BY JUNE 30

Your nominee could win \$2,000 for their local charity

Iowa's electric cooperatives are excited to announce the return of a statewide contest, which celebrates our cooperative commitment to community. Called **Shine the Light**, the contest will accept nominations in June and award three winners with a \$2,000 check to their local charity or community organization.

"We're excited to once again provide this cooperative effort to shine the light on local volunteers," says Erin Campbell, director of communications for the Iowa Association of Electric Cooperatives. "So many people throughout the areas served by Iowa's electric cooperatives deserve to be recognized for making a positive impact."

Sponsored by the Touchstone Energy Cooperatives of Iowa, the Shine the Light contest will accept contest entries online during the month of June. In addition to receiving a \$2,000 donation for their charity or nonprofit of choice, the winners will also be featured in the September issue of *Iowa Electric Cooperative Living* magazine.

How to nominate

Member-consumers, employees and retirees of Iowa's electric cooperatives are eligible to nominate local volunteers. If you receive electricity from an electric cooperative in Iowa, you're a co-op member-consumer and invited to nominate someone who is making a positive impact in the community. The volunteer being nominated does not need to be a co-op member-consumer. Minors may be nominated with consent from their parents or legal guardians.



Step 1:

Go to www.IowaShineTheLight.com from June 1-30 to make a nomination and to review the contest rules.

Step 2:

As a nominator, provide your contact information and answer the following question in 500 words or less.

How has your nominee made a positive difference in the community, and why do they deserve to be recognized?



BEAN WALKING ETIQUETTE

BY VALERIE VAN KOOTEN

When I was growing up, one of the only ways for a 13-year-old to make money on the farm was to walk beans. This was before the days of weed-resistant soybean hybrids, and my crew's job was to clear those fields of buttonweeds, stray corn stalks, cockleburrs and what we called "waterweeds."

In Pella, most of the kids willing to do this work signed on with a local farmer who owned many acres. From the first of July until the end of the month, we labored six mornings a week from 7 a.m. to noon.

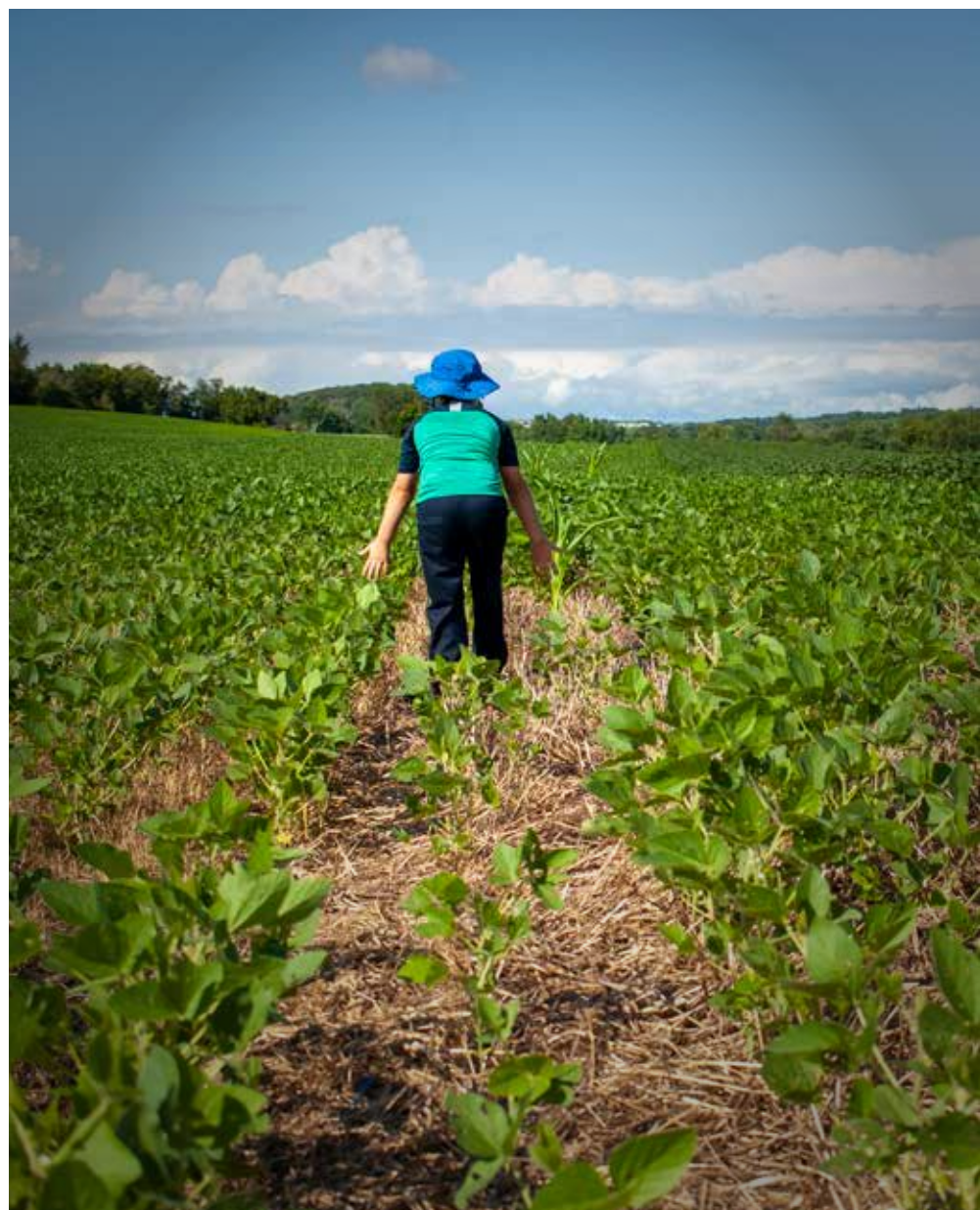
A strategic approach

Lest you think that this seems very straightforward, there is very much a technique to walking beans. A person was placed in every other row; your job was to keep an eye on the inside of the rows you were walking between and then the outside of each row beside you. In all, you were patrolling four rows of beans.

We carried hoes, but our crew leaders warned us against using them very often. It was easy to hack out the weeds, but in the process, we usually took out more beans than the weeds warranted. A few city-slicker kids brought what were called "bean hooks," which someone told them would be helpful, but ended up being pretty worthless. The best method was your gloved hands and your back, as you pulled from the roots. If it was really root-bound, you called someone over from an adjoining row to help.

Some fields were a dream; you could walk for yards without running into the enemy. Other acres were riddled with horseweed, corn or the vine-like waterweeds. Often, we were reduced to crawling through the rows, especially when cockleburrs were prevalent.

If you were finished with your rows before everyone else, bean etiquette required that you "dig out" someone who was still a way back by working up



their rows until the two of you met. At the end of each row, we'd grab a drink, take a little rest and gird our proverbial loins for the next round.

Fields of teenage entertainment

Occasionally a farmer in the area would informally hire a few kids to walk a smaller plot of fields. We'd show up with 4 to 6 girls, all in tube tops to get a great tan, and parade through the aisles. Without overseers, hijinks commenced – clod fights, pulling down

someone's tube top, dripping ice water onto an unsuspecting walker while she was resting for a few moments.

In this era of beans that are largely weed-free, there's not much call for bean walkers. That's probably a good thing. I haven't worn a tube top for 40 years.

Valerie Van Kooten is a writer from Pella who loves living in the country and telling its stories. She and her husband Kent have three married sons, two incredibly adorable grandsons and a lovely granddaughter.

Visit our website at www.ieclmagazine.com



Touchstone Energy[®]
Cooperatives

LIKE FATHER, LIKE DAUGHTER

Join Touchstone Energy Cooperatives in celebrating
the power of human connections.