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● NOVEMBER 2021

iowa

ELECTRIC COOPERATIVE LIVING

**Get charged up about
electric vehicles**

**Shop “co-op local”
this holiday season**

**Cozy up with soup
and stew recipes**

Win a \$100 gift card to a local business ▶ See Page 3

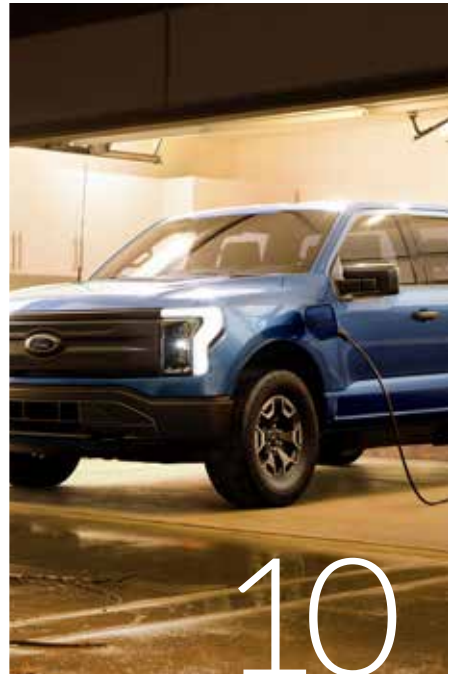
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ON THE COVER

Congratulations to Dawn Joerg, a Harrison County REC member-consumer, for supplying this month's cover image. Submit high-resolution photos for consideration to editor@ieclmagazine.com. You could win \$100!

THE BEST TIME TO ADVOCATE IS ALWAYS

BY KEVIN CONDON



Have you ever talked to your lawmakers about a specific issue? Your county supervisor? Have you ever spoken up on behalf of your fire department? If so, then you've

advocated for something before, perhaps without even realizing it.

As part of larger electric cooperative family, I hope you'll consider standing up on behalf of your co-op. The next decade will be critical for the electric industry as policies and regulations that come from federal and state governments will impact how your cooperative provides power. The time to start educating has begun, and your statewide association wants to help you to make informed decisions about how your co-op will adapt to a changing energy industry.

Proposed federal policies

Currently, Congress is debating what is referred to as the Build Back Better Act (BBBA) under a budget-setting process called reconciliation. When this magazine went to press, the U.S. Senate still had not announced provisions they could agree on for the U.S. House-passed version. Regarding the energy industry, the "carrots and sticks"

approach included in the House version has caused concern for electric utilities, including co-ops. To be clear, there are positive attributes contained in the bill, including:

- Direct-pay tax incentives for cooperatives to use for renewable energy and carbon capture projects.
- U.S. Department of Agriculture-administered funds that will help rural electric cooperatives increase clean energy and reduce carbon emissions.
- Expansions of projects to increase support for much-needed transmission infrastructure.

While the Senate Majority appears to not have the required amount of support, the proposed Clean Electricity Performance Program (CEPP) concerns cooperatives due to the punitive measures in the plan. The \$150 billion program would reward utilities that increase their use of clean energy by 4% annually but would penalize those that don't without consideration for whether that percentage threshold affects the reliability and/or affordability of power for member-consumers.

Recently, National Rural Electric Cooperative Association (NRECA) CEO Jim Matheson told federal lawmakers in a letter that the program's 10-year

timeframe to achieve the bill's mandates is "is unrealistic because of longer-term existing contractual obligations." He also called the clean energy targets "too aggressive," adding that "a year-over-year 4% increase in clean electricity deployment is not attainable for many of our members."

Further, the CEPP "makes a significant mistake by requiring compliance on load-serving entities," Matheson says. "Many electric cooperatives are relatively small distribution entities that own little, if any, generation."

Balanced power generation

Iowa's electric cooperatives support the inclusion of clean energy through a balanced and responsible "all-the-above" power generation strategy. When the battery storage puzzle pieces fall into place, intermittent wind and solar will see an increase in their reliability score, but the technology isn't yet there. Policy or regulatory efforts to prematurely close baseload generation facilities ahead of those developments fails to appreciate your cooperative's responsibility to provide you with affordable, reliable and efficient power.

Make your voice heard

Making sure the co-op perspective is heard and understood is why we advocate. Most lawmakers have never worked for or belonged to an electric cooperative. We must continue to put into practical terms how laws and regulations will actually impact member-consumers.

Now is the time to get involved and educate yourself on these issues. Contact your cooperative or your District Board Director to better understand the positions of the co-op. Your cooperative takes pride in being part of your community, and you are the co-op. Help your co-op advocate for you!

For more information, visit www.iaruralpower.org.

Kevin Condon is the director of government relations for the Iowa Association of Electric Cooperatives.

EDITOR'S CHOICE CONTEST

Win a \$100 gift card

Just in time for holiday shopping, we're giving away a \$100 gift card to your choice of a hometown business. It will be good for a restaurant, hardware store, gift shop, grocery store, beauty salon or other local business that's vital to your community.

Visit our website and win!

Enter this month's contest at www.ieclmagazine.com no later than Nov. 30, 2021. 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 Keurig from the September issue was David Foelske from Butler County Rural Electric Cooperative.



QUOTE OF THE MONTH

The U.S. Energy Information Administration (EIA) expects large-scale battery storage installations to contribute 10 gigawatts to the grid from 2021 to 2023 – 10 times the installed capacity in 2019. The EIA also expects most large-scale storage systems coming online over the next three years to be co-located at power plants that produce electricity from photovoltaics (solar).

“Adding battery storage to solar generation assets can help firm up the asset. This is a way of making a nondispatchable solar resource at least partially dispatchable. For example, in the late afternoon as the sun goes down and electric loads are at their peak, batteries can discharge energy into the grid that the solar panels had collected in the middle of the day.”

Mark Schneider, National Rural Utilities Cooperative Finance Corporation (CFC) vice president of industry research and consulting

4 STEPS FOR FOOD SAFETY WHEN COOKING WITH TURKEY



Food safety is a top priority when you're in the kitchen. Just a few simple steps will help make sure your Thanksgiving turkey is ready for the table and you and your loved ones stay healthy.

STEP 1

Clean – Hands and surfaces

In the kitchen, handwashing is a critical step in preparing healthy, safe meals and preventing foodborne illnesses. Wash hands with soap vigorously before and after handling raw poultry.

Wash used cutting boards, dishes, utensils and countertops with hot, soapy water after preparing each food item.

STEP 2

Separate – Prevent cross-contamination in the kitchen

Use separate cutting boards for raw poultry and any other food that does not require cooking. Carefully clean all cutting boards, countertops and utensils with soap and hot water before and after preparing raw poultry. Don't rinse your turkey! Rinsing your turkey can spread harmful germs and bacteria around the kitchen and increases the risk of cross-contamination.

STEP 3

Cook – Cook turkey to proper internal temperature

Use a meat thermometer to verify your turkey has reached the safest internal temperature of 165 degrees F. For a whole turkey, the temperature should be checked in at least three places: the innermost part of the thigh, the innermost part of the wing and the thickest part of the breast. If stuffed, the innermost part of the stuffing should also reach 165 degrees F.

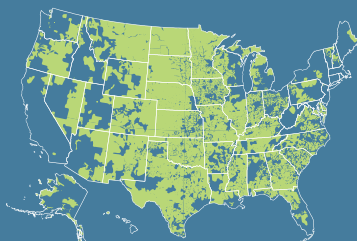
STEP 4

Chill – Refrigerate promptly and properly

Refrigerate perishable foods as soon as possible. Freeze raw turkey that will not be cooked before the “use-by date” on the packaging or within two days of purchase. Thaw turkey in the refrigerator, ideally in a bowl or other dish on the lowest shelf. Never thaw or marinate foods on the counter. Once cooked, slice turkey off the bone (you can leave the leg and thigh intact), cover and refrigerate promptly. According to USDA guidelines, discard any uneaten food if left out for more than two hours. Leftovers can be kept in the refrigerator for 3-4 days or frozen for 3-4 months.

DID YOU KNOW?

ELECTRIC COOPERATIVES
POWER 56%
OF THE NATION'S
LANDMASS



GOV. REYNOLDS ANNOUNCES FUNDS AVAILABLE TO SUPPORT RURAL COMMUNITIES

Gov. Kim Reynolds and the Iowa Economic Development Authority (IEDA) have announced four competitive funds available for rural communities with a population under 20,000. Specifically, funding of up to \$500,000 has been allocated to the following funds for current fiscal year (FY 2022) through FY 2023:

- **Rural Innovation Grant Program** – Provides up to \$200,000 in grants supporting creative, non-traditional ideas that focus on current issues and challenges faced by rural communities associated with the themes of community investment, growth and connection.
- **Rural Housing Assessment Grant Program** – Provides up to \$100,000 to support the use of publicly available online information through the “Profile of Iowa” tool and rural community efforts to interpret this hard data with supplemental information, as well as to implement through changes to development codes, local ordinances and housing incentives specific to their community needs in partnership with Iowa State University Extension and Outreach.
- **Rural Child Care Market Study Grant Program** – Provides up to \$100,000 to support the use of data and analysis by rural communities to determine the specific needs and solutions for their area. In partnership with First Children’s Finance, funding from the program will empower communities to assess their current child care market environment and develop strategies.
- **Rural Return Program** – Provides up to \$100,000 to support creative programming that attracts new residents to move and/or work in rural communities. Grant funding



will support the development and implementation of incentive programs.

Guidelines and scoring rubrics for all programs are available at www.iowaeda.com/empower-rural-iowa/. The programs, defined in Iowa Administrative Code, are administered by the Center for Rural Revitalization, a division of IEDA, in consultation with the Governor’s Empower Rural Iowa Initiative Task Forces.

Applications for FY 2022 are currently being accepted via iowagrants.gov and are due by Dec. 1, 2021. Applications will be scored by volunteer panels that will include the Governor’s Empower Rural Iowa Initiative Task Force members and expert professionals. Successful applicants will be informed in mid-December.

“We are committed to revitalizing our rural Iowa communities to ensure they continue to grow and prosper,” says Gov. Reynolds. “The Governor’s Empower Rural Iowa Initiative grant opportunities will provide the tools that will enable leaders and innovators to build thriving communities in all corners of the state, making Iowa an even better place to live, work and raise families.”

For additional program parameters and information, contact Liesl Seibert at rural@iowaeda.com.

LIHEAP APPLICATION PERIOD IS OPEN

The Iowa Utilities Board (IUB) reminds consumers that limited financial heating assistance is available to income-eligible utility customers through the Low-Income Home Energy Assistance Program (LIHEAP). The annual application period runs from Nov. 1, 2021, through April 30, 2022. The application period for homes with elderly or disabled residents began October 1.

The LIHEAP program is designed to help low-income homeowners and renters pay a portion of their primary home heating costs through a one-time payment made directly to the utility or heating fuel vendor. Under LIHEAP or the weatherization assistance program, Iowa law protects qualified applicants who are the head of a household from being disconnected from natural gas or electric service from Nov. 1 through April 1. Although qualified applicants cannot be disconnected during the annual winter moratorium, the IUB urges all LIHEAP-certified customers to continue paying toward their energy bills through the winter to avoid accumulating high debt and facing potential utility service disconnection in the spring.

Eligibility for the federally funded LIHEAP program is based on household size and income, type of fuel, and type of housing. Interested applicants should review the federal income guidelines then apply at the community action agency serving their area. Heating assistance dollars for LIHEAP and the weatherization assistance program are limited.

For assistance, utility customers may contact their local utility company or contact the IUB Customer Service staff at 877-565-4450 or customer@iub.iowa.gov.

Learn more on the IUB’s LIHEAP webpage, or through the Iowa Department of Human Rights online at humanrights.iowa.gov/dcaa/liheap or call 515-281-3861.

SHOP CO-OP LOCAL THIS HOLIDAY SEASON

BY ANN THELEN

Ho, ho, ho! It's time to deck the halls, turn on the holiday music, roll out the wrapping paper and start this year's holiday shopping.

Electric cooperatives are committed to the communities we serve, and it shows with the way member-consumers, employees and directors rally around to support one another. During the holiday season, shopping local is one of the easiest ways to support your friends and neighbors who are also business owners.

To help your holiday gift-giving or list-making, we've combined a list of electric cooperative-served businesses that offer unique gifts to place under the Christmas tree or in a stocking. As you embark on Santa Claus duties this year, keep in mind that this list is just a sampling of local businesses. Take a walk along your community's Main Street or explore all that your local area offers for additional inspiration to shop local this holiday season!



BERGMAN FARMS

www.bergmanfarms.com

Facebook: [BergmanFarms1884](https://www.facebook.com/BergmanFarms1884)

From their pasture to your table, Bergman Farms offers quality beef, pork, chicken and produce. Located between Cedar Falls and Hudson, the online shop offers a variety of cuts and package sizes. Plus, they also own Velvet Hoof, a customized apparel and gift company. See more information on the next page.



BRITCHES 'N' BOWS

www.britchesnbowscountrystore.com

Facebook: [shopbnb](https://www.facebook.com/shopbnb)

Britches 'N' Bows is a rustic country gift shop in Panora offering modern farmhouse décor, boutique style clothing and trendy accessories. The shop also offers rustic wedding rentals, styling services and fresh wedding florals.



CAM CUSTOM DESIGNS

Facebook: [CAM-Custom-Designs-104853484709869](https://www.facebook.com/CAM-Custom-Designs-104853484709869)

Located in Reinbeck, owner Carrie McCalley offers customized apparel and home decor.



BENTON AVE. BOUTIQUE

www.bentonavenueboutique.com

Facebook: [bentonaveboutique](https://www.facebook.com/bentonaveboutique)

Instagram: [bentonaveboutique](https://www.instagram.com/bentonaveboutique)

Benton Avenue Boutique is located on the beautiful historic square in Albia. Two moms with a love for cute clothes bring trendy looks to small-town Iowa so that women in every size look good and feel good. Shop online or visit their storefront.



COUNTRY BLEND SEASONING

Facebook: [CountryBlendSeasoning](https://www.facebook.com/CountryBlendSeasoning)

Country Blend is Grandma's secret to excellent cooking. The seasoning blend is manufactured in Rockwell City by Midwest Flavors, LLC. It makes the perfect addition to grilled or baked chicken, pork, beef, turkey, fish and wild game. It's also great on potatoes, salads or in soups and sauces.



DOWN HOME CREATIONS

downhomecreationsalbia.com
Facebook:
DownHomeCreationsAlbia

Down Home Creations is a handmade-focused gift shop with more than 25 artisans and crafters who sell handmade and refurbished creations. Shop online or visit their storefront.



THE HOLTON HOMESTEAD

www.holtonhomestead.com
Facebook: **TheHoltonHomestead**
Instagram: **theholtonhomestead**

Owners Sara and Tyler Holton founded The Holton Homestead in 2015 on their small acreage in Elkhart. The farm specializes in market gardening, beekeeping, honey production, food preservation, natural remedies and lifestyle products. Products can be purchased at a small store on the farm or in numerous retail locations in central Iowa.



J&J CANDLES

www.jjcandlesmanson.com
Facebook: **jjcandlesmanson**

J&J Candles is a family-owned business that has been offering handcrafted, scented products for more than 25 years. They feature nearly 200 scents. In addition to individual sales, they offer wholesale pricing with minimum orders and do fundraisers. All the scented products are made at its facility south of Manson.



MOLLY'S

Facebook: **mollyscountrystore**

Molly's is an old barn turned vintage-inspired retail store in Audubon. The shop offers quality home décor, clothing and accessories in a weathered and worn, tattered and torn style.



MUSTARD SEED

www.visitmustardseed.com
Facebook: **mustardseedcoalbia**

Mustard Seed Co. is a family-owned, unique shop featuring home inspirations. Located one block south of Albia's quaint historic square, the shop delivers with charm and character. Shop online or visit their storefront.



NIGHTINGALE BAKERY

Facebook: **Nightingale-Bakery-473092180174458**

Nightingale Bakery offers homemade pies, cakes, cheesecakes, cupcakes and more in a cozy setting in Albia.



THE PINT-SIZED FARM WIFE

Instagram: **ThePintSizedFarmWife**
Email: **thepintsizefarmwife@gmail.com**

Katie Putnam and her husband Nick farm corn and soybeans in rural western Iowa. Katie offers custom sugar cookies featuring everything from farm scenes to business logos to holiday greetings.



RECREATION UNLIMITED

Facebook: **recreationunlimited04**

A family-owned and operated business in Traer, offering top notch outdoor equipment and accessories, including Green Mountain Grills.



SWEET HONEYMOON WINERY

www.sweethoneymoonwinery.com
Facebook: **sweethoneymoonwinery**

Sweet Honeymoon Winery is a craft winery in Calhoun County making quality wines (including dry wines) in small batches from imported grape juice from all around the world. Because of this approach, the business offers varieties not normally available to wineries in our northern climate. They also make an award-winning Mead (honey wine).



VELVET HOOF

Facebook: www.facebook.com/groups/366408144865806

The shop expresses a love for the outdoors, hunting, farming, cattle, livestock and all things western and rustic with custom creations. Shoppers can find stickers, decals, apparel, decor and more. Join The Velvet Hoof's Facebook group to learn more!

To find more local business in your area, check with your local chamber of commerce or electric cooperative. Happy shopping!

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

SOUP & STEW

RECIPES

RIBOLITA SOUP

- ¼ cup olive oil
- 4 cloves garlic, minced
- 1 onion, minced
- 3 stalks celery, minced
- 2 carrots, peeled and chopped
- 2 large potatoes, peeled and diced
- pinch of dried sage
- 1 bunch kale, washed, stemmed and shredded
- 1 small head green cabbage, chopped
- 1 28-ounce can crushed tomatoes
- 3 cans kidney or navy beans, rinsed
- 8 cups water or chicken stock
- 2 teaspoons dried oregano
- 2 teaspoons dried basil
- salt and pepper to taste
- 8 thick slices French bread, toasted
- Parmesan cheese
- olive oil
- parsley, chopped

In a very large pot, heat olive oil. Add garlic, onion, celery and carrots. Cook until the onion is transparent, stirring constantly. Add potatoes, sage, kale, cabbage, tomatoes, beans and water or stock. Bring to a boil and add oregano and basil. Simmer 30 minutes, until potatoes are tender. Add more water or stock if the soup seems too thick. Season with salt and pepper. Put the toast in the bottom of a big soup bowl, drizzle with olive oil and ladle soup over the toast. Sprinkle with Parmesan cheese and parsley to serve. **Soup secret:** Use Swanson's chicken stock diluted with 50% water. Don't use bouillon cubes or paste as they are too salty. Serves 8-10

Linda Coats • Mount Pleasant
Access Energy Cooperative

CREAMY TORTELLINI SOUP

- 2 tablespoons butter
- 1 onion, diced
- 2 garlic cloves, minced
- ¼ cup flour
- 3 cups chicken broth
- 1 28-ounce can diced tomatoes
- 2 tablespoons tomato paste
- 8 ounces cheese tortellini
- ½ cup Parmesan cheese
- 10 ounces spinach, chopped
- salt and pepper, to taste

Melt butter over medium heat, add onion and cook 5-7 minutes. Add garlic and cook 1 minute. Add flour and cook 1 minute more. Add broth, diced tomatoes, tomato paste and tortellini; bring to boil. Simmer on low heat 10 minutes or until tortellini is tender. Add Parmesan and let melt. Add spinach and let wilt. Season with salt and pepper. Remove from heat and serve. If desired, garnish with more Parmesan and fresh spinach, sliced small. Yields 8 cups

Lauren Zollinger • Rock Rapids
Lyon Rural Electric Cooperative

PEANUT SWEET POTATO SOUP

- 2 tablespoons butter
- 1 small onion, diced
- 1 large carrot, diced
- 1 stalk celery, diced
- 1 medium sweet potato, peeled and diced
- 1 small red pepper, diced
- 1 teaspoon garlic, minced
- ½ teaspoon chili pepper
- ½ teaspoon seasoned salt
- ¼ teaspoon black pepper
- 1 14.5-ounce can chicken broth
- ½ cup corn
- 3 tablespoons peanut butter
- chopped peanuts, garnish

Sauté vegetables (except corn) and seasonings in butter, adjusting seasonings to taste. Add broth and corn. Simmer until vegetables are tender. Stir in peanut butter. Garnish with chopped peanuts. *Serves 4*

Chris Daniels • Casey
Guthrie County Rural Electric Cooperative Association

CHEESY VEGETABLE SOUP

- 1 quart water
- 5 chicken bouillon cubes
- 1 cup onion, diced
- 1 cup carrots, sliced
- 2 cups potatoes, cubed
- 1 20-ounce package frozen broccoli and cauliflower
- 1 pound box Velveeta cheese
- 2 cans cream of chicken soup

Simmer all ingredients (except cheese and soup) until vegetables are tender. Add cheese and cream of chicken soup; simmer until cheese is melted. Be careful not to scorch. *Yields 1 gallon*

Phyllis Bosma • Ocheyedan
Osceola Electric Cooperative, Inc.

CORN CHOWDER

- 1 pound sausage
- ¼ cup onion
- 1½ cups potatoes, chopped
- ½ cup carrots, chopped
- 1 cup water
- 1 12-ounce can evaporated milk
- 1 can cream of celery soup
- 1 can creamed corn

Mix sausage and onion. Add potatoes, carrots and water, cook until done. Add evaporated milk, soup and creamed corn. Heat together until hot. *Serves 6*

Glenda Jager • George • Lyon Rural Electric Cooperative

PORK & BEAN SOUP

- 3 or 4 medium potatoes, diced
- 1 onion, diced
- 2 15-ounce cans pork and beans
- 1 14.5-ounce can diced tomatoes
- 1 14.5-ounce can beef broth
- 1 pound hamburger, browned
- salt and pepper, to taste

Place potatoes and onion in pan and almost cover with water. Boil until tender. Add pork and beans, tomatoes, beef broth and hamburger. Season to taste. Heat thoroughly and serve. *Serves 8-10*

Norma Skogman • Hawarden
North West Rural Electric Cooperative

CREAMY CHICKEN & WILD RICE SOUP

- 1 6-ounce package chicken and wild rice mix
- 5 cups water
- 2 medium carrots, shredded
- 2 tablespoons dried minced onion
- 8 ounces cream cheese, cubed
- 1 can cream of chicken soup
- 2 cups chicken, cooked and cubed

In a large saucepan, combine packaged rice and seasonings with water. Bring to a boil. Reduce heat, cover and simmer 10 minutes. Stir in carrots and onion. Cover and simmer 5 minutes. Stir in cream cheese, soup and chicken. Cook until heated through. *Yields 6 bowls*

Elizabeth Hartter • Rock Rapids
Lyon Rural Electric Cooperative

WANTED:

FAVORITE FISH RECIPES



THE REWARD:

\$25 FOR EVERY ONE WE PUBLISH!

Deadline is Nov. 30, 2021

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

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GETTING CHARGED UP ABOUT ELECTRIC VEHICLES

BY PAT KEEGAN AND BRAD THIESSEN



Photo Credit: Ford

Ford, Hyundai, Kia and Volkswagen will be offering EVs in 2022 that can potentially power your home during a prolonged power outage.



A variety of new EV models will be available to drivers soon, including the 2022 Ford Mustang Mach-E.

Photo Credit: Ford



This JuiceBox L2 EV charging station connects to Wi-Fi and includes smartphone app capabilities.

As the buzz continues to grow around electric vehicles (EVs), it's important to think about how they will be charged. This includes understanding the basics on batteries and charging options.

Batteries, like the vehicles they power, come in different sizes that provide different mileage ranges. Most people charge their EVs at home, but if you take a cross-country trip, you can charge your EV at one of the rapidly growing number of charging stations around the country. The Department of Energy estimates there are currently 50,000 EV charging sites in the U.S.

EVs will tell you how many miles are remaining before a charge is needed, and many models offer in-car navigation to the next charger. For EVs without this feature, there are many smartphone apps available to help you navigate to the next charging site.

Understanding charging levels

We often refer to three levels of EV charging.

A new EV comes equipped for **Level 1 (L1)** charging, which simply plugs into a regular electrical outlet. This is the slowest option for charging, but if you don't travel many miles per day or your EV is a plug-in hybrid (PHEV) with a small battery, L1 charging will likely meet your needs.

L1 requires less than 1.5 kilowatts, which is about the same as a hair dryer, and will give the battery 3 to 5 miles of range per hour of charging. If you drive your car 40 miles or less during

the day and can charge it for 10 hours every night, this method should work for your daily driving needs. But if you have an all-electric EV with a 60-kWh battery, it would take more than 40 hours to fully charge with L1.

Level 2 (L2) is the most common type of charging because it operates on 240-volt power, which nearly every home has. L2 can supply roughly 6 to 19 kW of power, depending on what your vehicle can accept and your electric circuit's amperage. L2 can provide 100 miles of charge in several hours, and fully charge a large battery in 8 to 10 hours. You may need to install a new circuit if there isn't a 240-volt circuit near the area you park. L2 is the most common type of charging at public sites, like grocery stores, libraries and workplaces.

Level 3 (L3) chargers, often called DC Fast Chargers (DCFC), require much more current and are not installed in homes. L3 chargers are typically seen at specific EV charging sites and some gas stations. These chargers have power levels from 50 to 350 kW, depending on the charging station. Some new EVs can accept 250 kW or more and charge a battery from 10 to 80% in less than 20 minutes. Some older EV models may take an hour or more to achieve 80% at 50 kW. When selecting an EV, the charge time from 10 to 80% can be an important factor if you regularly head out on road trips.

Charging considerations

"Vehicle to home" is an exciting new technology that enables EVs to power



a home or shop during a power outage. Ford's upcoming F-150 Lightning Pro (2022), Hyundai's Ioniq5 and Kia's EV6 crossovers, and the 2022 Volkswagens are slated to offer this option.

Another important decision is when to charge your EV. Your local electric co-op may offer special rates if you charge your EV at night when energy demand is lower, which can help keep electricity costs down. Electric co-ops around the country are working on programs to prepare for more EV home charging, so reach out to your co-op if you have questions about EVs, charging or specific programs and rates.

EV charging infrastructure is currently being built across the country. You may not see them in your area yet, but they're coming, so get charged up about EVs!

Pat Keegan and Brad Thiessen of Collaborative Efficiency write on energy efficiency topics for the National Rural Electric Cooperative Association, the national trade association representing more than 900 local electric cooperatives.

HOW IS IOWA CHARGING UP?

According to Iowa Department of Transportation (DOT) and the Iowa Economic Development Authority, 5,880 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 [plugshare.com](https://www.plugshare.com) to find charging stations, leave reviews and connect with other plug-in owners.



HOW WILL WE CHARGE ALL THE NEW ELECTRIC VEHICLES?

BY PAUL WESSLUND



Electric vehicles (EV) need a nationwide network of charging stations to overcome American drivers' fears of running out of juice on long trips.

Or maybe that's not true at all.

There are already nearly one-third as many charging sites in the U.S. as gas stations. And that doesn't even count the "refueling stations" found in the electric outlets of every home. Plus, the range of EVs already exceeds how far most people drive in a day. It's estimated 90% of Americans drive less than 45 miles a day, and the average range for EVs is 250 miles.

The ballyhoo over charging stations has created a powerful conventional wisdom that they're a necessary step toward overcoming "range anxiety." President Biden's American Jobs Plan proposes a national network of 500,000 charging stations by 2030, up from the Department of Energy's current count of 50,000.

But the conventional wisdom masks a different road ahead.

Concerns beyond range anxiety

Range anxiety may be the least of the

reasons there aren't more EVs on the road, says Brian Sloboda, director of consumer solutions for the National Rural Electric Cooperative Association.

"There are people who argue we need the charging network for the electric vehicle market to be successful. They might be right, but I'm not one of those people," says Sloboda. "Let's say your electric vehicle is only used for commuting and you're just driving it from your home to the grocery store to work. It is very likely that you would never even use public charging stations because you can charge your EV at home for a very reasonable price."

Sloboda is quick to list the advantages of EVs, from how they affect the environment to their lower maintenance costs to the fact that you can wake up every morning with a full tank of "gas." But he sees bigger issues than a lack of charging stations standing in the way of greater acceptance.

"You have limited model availability, limited body styles, limited manufacturers, high prices and most people are unfamiliar with the technology," he says.

But Sloboda sees those problems as solvable. Right now, you'll pay about \$10,000 extra for an electric model. But those costs are coming down as batteries get cheaper and more powerful.

And competition is heating up. Every major car manufacturer has high-profile plans for electric models. Although EVs make up less than 4% of the auto market, that's doubled from just one year ago.

Supporting public charging

Even if charging stations are not the most important determiner of the future of EVs, they are a growing part of the landscape. To find the nearest charging station, a variety of apps will guide you. Many electric co-ops are also responding to the rising interest.

"Co-ops are looking at what they can do to support public charging," says Sloboda. "They do it to meet the needs of their members, but they also do it as economic development to bring tourists into the community to support local businesses like hotels and parks."

Paul Wesslund writes on consumer and cooperative affairs for the National Rural Electric Cooperative Association.

THE COOPERATIVE MODEL BENEFITS RURAL AND URBAN IOWANS

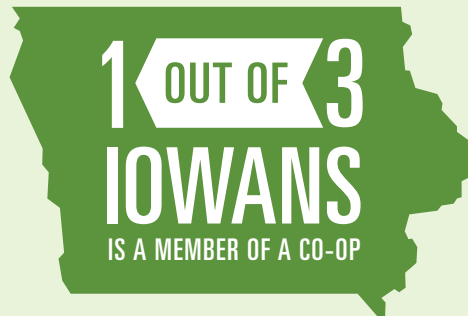
BY DAVE HOLM, CHUCK SODERBERG AND MURRAY WILLIAMS

For more than 200 years, Americans have worked together in cooperatives to meet challenges that are too big to solve individually. People often think of agriculture when they hear the word co-op in Iowa. In reality, more than one out of every three Iowans is a member of a co-op through industries like rural electric, credit unions, rural telephone, farm credit, petroleum and more.

What is a co-op exactly? Co-ops are not-for-profit organizations that are owned and democratically controlled by their members. They exist to benefit the people who use the co-op's services rather than generate profits for outside investors. Members elect their board of directors from within the membership.

As part of National Co-op Month, Gov. Kim Reynolds declared October as Co-op Month in Iowa. While co-op month is traditionally celebrated in October, the positive economic impact these organizations have in our state is something to be celebrated every day and month of the year.

Co-ops benefit both rural and urban Iowa, serving more than 1.4 million members throughout the state. In rural communities alone, co-ops pay approximately \$41 million in property taxes and help support critical infrastructure.



CO-OPS PAY APPROXIMATELY \$41 MILLION IN PROPERTY TAXES AND HELP SUPPORT CRITICAL INFRASTRUCTURE

CO-OPS SERVE MORE THAN 1.4 MILLION MEMBERS THROUGHOUT IOWA



CO-OPS EMPLOY MORE THAN 11,000 IOWANS

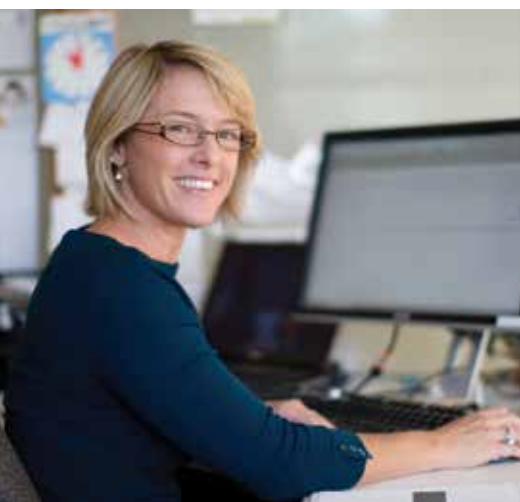
More than 11,000 Iowans are employed by co-ops, which often provide first-class benefits like health care, benefit programs, 401(k) plans, life insurance, paid time off, continued education incentives and even wellness plans. In fact, if these cooperative employees were grouped together, cooperatives would be in the top 10 largest employers in Iowa. Visit www.iowacooperatives.com to learn more about how cooperatives are critical to Iowa's economy.

This year's National Co-op Month theme of "Build Back for Impact" will be an ongoing focus for the months ahead. It is a chance to leverage our shared cooperative identity in the face of some of the biggest challenges

we have faced as a state and a nation. Our cooperative industries have been serving members on the forefront of the pandemic, and our most significant impact comes from embracing the values and principles that make us truly unique.

Whether it's the members we serve or the Iowans we employ, our cooperative movement is committed to enhancing economic opportunity and improving the quality of life in Iowa's cities, towns and rural areas.

Dave Holm is executive director of the Iowa Institute for Cooperatives. Chuck Soderberg is executive vice president and general manager of the Iowa Association of Electric Cooperatives. Murray Williams is president and CEO of the Iowa Credit Union League.



POWERFUL FUN: FIVE COOL USES TO POWER YOUR YULETIDE

BY PAUL WESSLUND



At the end of the year, thoughts of gifts dance in our heads, whether for others or just treating ourselves to the achievement of being able to turn the page on 2021.

Electricity offers one way to brighten gift choices as inventors and innovators keep coming up with new gadgets and gizmos to power our lives with efficiency and fun. Here are five electric ideas to add pizzazz to your holiday shopping list.

- 1 Healthy French fries?** Air fryers aren't really fryers but high-heat convection devices that simulate traditional recipes like chicken tenders, egg rolls, potato chips, fried vegetables and apple fritters. It's a health-conscious way to enjoy the comfort of fried favorites with much less oil. A friend of mine calls his electric air fryer "the greatest invention of all time."
- 2 Hit the road.** "Electric vehicle" doesn't mean just cars and trucks anymore! The sidewalks of college campuses and downtowns are now shared with electric scooters. And if you're having trouble keeping up with a bicycle fanatic, an electric bike might help you scale those
- 3 Walk the talk.** Walkie-talkies are one of those old technologies for staying in touch that still work great for businesses, conference coordination, hiking or camping. They can help keep a caravan of cars and trailers together. Let the kids figure out games like hide-and-seek or scavenger hunts. When shopping, it's helpful to know what you'll use them for because there are both indoor and outdoor models, and range can vary from a half-mile to 20 miles.
- 4 Easy reader.** If being at a computer keyboard seems too much like work and you're tired of squinting at the little screen on your phone,

steep hills. You can go off-road while hunting or bird watching with an electric All-Terrain Vehicle.

And if you were born to be wild, you can head out on the highway on a battery-powered motorcycle. The electric Harley Davidson boasts instant 100% torque, electronic safety features and the ability to use your smartphone for checking battery status and stolen vehicle tracking.

look at tablets. They come in a variety of screen sizes that make it easier to enjoy that magazine, detective novel, streaming movie or TV show or your computer game of choice. Most models come with the ability to write or draw on them.

- 5 Packing power.** A portable charger may seem like one of the least-exciting gifts you can give or get. But you'll be thankful for one when your phone's about to die as you hike over a hill and see a sunset vista to photograph, or you're at a concert and the song you wanted to record comes on! A word of advice: charge it up the day before you expect to use it because the smallest ones for your purse or pocket tend not to hold a charge for several weeks.

Shop carefully and know how you want to use the device because they all come with a variety of features and prices. And be cyber safe by using a strong password because anything connected to the internet can be hacked. Then focus on having some powerful fun!

Paul Wesslund writes on consumer and cooperative affairs for the National Rural Electric Cooperative Association.

PETEY THE PEACOCK FINDS A HOME

BY VALERIE VAN KOOTEN

A few months ago, a friend of mine on Facebook was wondering where she could find peacocks. She thought they'd be wonderful gracing her yard with their fully furled tails, strutting around.

I let her have her illusions of grandeur, but I know the truth about peacocks.

Fowl farm guests arrive

Twenty-some years ago, three of these creatures showed up at my folks' place, about a half-mile across the pasture from where we live. They comprised a male and female pair and another male. No one was sure where they had come from, but my mom was hoping they'd move along soon.

No such luck. The trio made their nests at the farm and was determined to stay. Watching them was a reminder of the nightmare of junior high politics. The female laid eggs and hatched five of them. She led the peachicks into the cornfield and returned with only one. These three – the mother, father and chick – banded as a group and wouldn't let the lonely male anywhere near them. The old bachelor had a tough time of it, wanting to fit in. We could hear his piteous calls from our house.

The peacock population waxed and waned over the next couple of years. Eggs were hatched, and babies wandered off. Coyotes took some. That left the one bachelor peacock at my folks, a bird my grandsons have dubbed Petey.

The truth about peacocks

Petey's idiosyncrasies are amusing and sometimes barely tolerated at my parents' house. If you've never heard the call of a peacock, it's shrill and loud and grating. Sitting on our deck in the evening, we can hear Petey, no problem. On telephone calls with my mom, he's easily identifiable in the background.

Because peacocks and peahens like to nest up high, they are constantly



flying into trees. Or the rafters of the machine shed. Or on top of your car. And because they have sharp, long talons, they scratch whatever it is they're climbing up.

Maybe you can handle the racket. Maybe you can even tolerate the scratched cars and house siding. But once ensconced in their perches, peacocks provide a constant stream of droppings, drippings, downpours and deluges. Your sidewalks will be a mess. Your movement under any tree where they are roosting had better be brisk or you risk being covered.

Petey becomes a family friend

Since Petey is the lone male now, he doesn't unfurl his tail that often, as there's no female attention waiting to

be sought. But he's become an integral part of our family to my grandsons.

On Father's Day of this year, a tornado ripped through my parents' farm, taking down their pole barn, machine shed and several mature trees. My grandsons' first question was, "Are Grandma and Grandpa okay?" Their second question was, "Is Petey okay?"

Oh yes, Petey is a survivor. If you don't believe it, the truth is in his beady, gimlet eye, where he seems to be warning you to stay away from his tree.

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

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