

● JULY 2022

# iowa

ELECTRIC COOPERATIVE LIVING

**Guthrie County REC  
operations update**

**Understanding this summer's  
grid reliability concerns**

**Favorite grilling recipes**

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ON THE COVER

Special thanks to Josie Pauley, 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!

# ADVOCACY: A STRATEGIC “GAME” OF OFFENSE AND DEFENSE

BY KEVIN CONDON



Another Iowa General Assembly has come and gone, and the political pundits have already moved on into “campaign mode.” While candidates prepare

to throw pound-after-pound of parade candy this summer, it is important to reflect on this legislative session for both the positive and not-so-positive developments the electric co-op family experienced.

Even though it is a grossly overused cliché, I can’t help but compare the legislative session to a sporting event. Sometimes you are on offense; sometimes you play defense. The 2022 session required us to play both, some days simultaneously.

## The impacts of state tax reforms

The rural electric cooperative (REC) government relations team focused primarily on the tax conversations at the Statehouse this year. The governor and Republican majorities in both chambers laid out plans for significant income tax reforms. RECs identified a sales tax oversight from a 2018 bill that needed to be fixed in order to achieve parity for rural member-consumers.

The income tax issue came out of the blocks fast, and significant reforms were signed into law on March 1, less than two months into session. Achieving income tax exemption for cash-rent payments to retired farmers and pension payouts to retired co-op employees are positive outcomes of the reform. And member-consumers of Iowa’s electric cooperatives will collectively save more than \$1 million annually thanks to two other bills that passed this session. SF 2367 passed in the final days of session and included a resolution to the sales tax issue above and will save roughly \$300,000 annually. It was

signed by Gov. Reynolds in June. Another bill that protected the expiration of a 30-year-old special energy utility tax was also signed into law (SF 2325 – approximately \$750,000 saved annually).

## Advocating for REC member-consumers

Again, while reviewing the positive outcomes of any legislative session is worthwhile, it can also be as meaningful to analyze those ideas that weren’t successful. The hard truth of public policy is that new laws can simultaneously help some and hurt others. When it is necessary to appeal to the referee to blow the whistle, the Iowa Association of Electric Cooperatives (IAEC) steps in to help cooperatives and you, the member-consumer, by being the collective voice of RECs at the Iowa Capitol.

One piece of legislation (HSB 697) attempted to make a mockery of the cooperative business model by creating special “solar clubs” for certain consumers. The bill aimed to essentially push the installation costs of their systems onto other consumers of electricity. RECs support solar energy

when it is a fair deal for all cooperative members, not just a few.

A second bill (SF 2321) could have trampled individual landowners and their property rights by prohibiting the use of their land for utility-scale solar energy production based on a Corn Suitability Rating 2 score of 65 or above. Imagine Iowa farmers being told they can’t do what they want with their land because it’s TOO good! Electric co-ops believe government shouldn’t preclude any landowner from an opportunity to make a profit off their own land.

We all know and love somebody who can take a football or basketball game very seriously. I’ve been guilty of letting my blood pressure skyrocket when the Iowa Hawkeyes aren’t playing the way I think they should. But I believe the actions that play out at the Statehouse must always be taken seriously. Whether pocketbook issues for you and your co-op or whether your poles, wires or land are at risk of government overstepping, IAEC will be ready to speak up on your behalf and when necessary, call for a timeout.

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

## EDITOR’S CHOICE CONTEST

### Win an electric grill!

The Cuisinart compact portable grill has a built-in telescoping base, so it functions as both a tabletop grill and a freestanding grill. Use it to cook family-sized meals on the ample porcelain-enamel grate. The unit packs away in seconds for compact storage and features a briefcase-style handle for easy transport.

#### Visit our website and win!

Enter this month’s contest by visiting [www.ieclmagazine.com](http://www.ieclmagazine.com) no later than July 31. 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 beef bundle from the May issue was Sam Spellman, Guthrie County REC.



ENTER ONLINE BY JULY 31!

# GUTHRIE COUNTY REC PARTICIPATES IN LOAN FOR LOCAL ECONOMIC DEVELOPMENT PROJECT

A 30,000-square-foot shell building planned in the Perry Industrial Park has received a \$750,000 loan, including \$150,000 from the Guthrie County REC Revolving Loan Fund, to help move the project forward. The co-op's power provider, Central Iowa Power Cooperative (CIPCO) and Minburn Communications contributed the remaining \$600,000 as part of the loan.

The estimated \$1 million building is the fourth to be built in the Perry Industrial Park, situated on what will be a newly created five-acre developed lot located between Percival Scientific and Hy-Line International. The remaining funds to cover costs were secured from the City of Perry. It's a good investment due to intense demand for existing industrial space and the low volume of these types of properties in the service areas of the utility partners they serve.

"We believe this project will be attractive to potential buyers looking to locate in areas like Perry where the cost of doing business is lower, the workforce is available and it is in close proximity to the greater Des Moines metro area," says Guthrie County REC CEO Cozy Nelsen. "We are pleased to



From left: Bruce Nuzum, Iowa Area Development Group; Deb Lucht, Minburn Communications; Monica Scheib, Terry Nielsen and C. Scott Finneseth, Perry Economic Development; Lisa Kristiansen, CIPCO; Matt McDevitt, Perry Industries, Inc.; and Ethan Pitt, Iowa Area Development Group.

support this endeavor with a financing package that will eventually bring a new business onto our service lines within the shovel-ready, certified Perry Industrial Park."

Perry Economic Development, Inc. is a 501(c)(3) nonprofit organization that will serve as the real estate holding company and works in partnership with Perry Industries, Inc. The building was slated for completion by the end of June

2022 and has already received inquiries from businesses wanting to relocate.

"We value the close-knit relationships we have with our true economic development partners, including Guthrie County REC, CIPCO, Minburn Communications and the City of Perry," says Matthew McDevitt, president of Perry Industries, Inc. "Each realizes that by working together toward a common purpose we will all succeed."

## TOGETHER, WE CAN BEAT THE PEAK

Guthrie County REC member-consumers are encouraged to monitor their energy use during these summer months. Doing so not only saves you money, but also saves your co-op money.

"The more member-consumers we have conserving energy, the better for our cooperative," says Guthrie County REC CEO Cozy Nelsen. "Energy prices are very high during peak periods and that impacts the power supply cost to everyone. If we all become more energy aware and make a few modifications in when we use energy, we can make a difference together."

The cooperative's power provider, Central Iowa Power Cooperative (CIPCO), cautions that above-average temperatures combined with an increased demand for

electricity and a potential reduction in electric generation resources may intermittently affect Guthrie County REC member-consumers this summer.

"We're working with electric cooperatives within the CIPCO member system and other partners to pinpoint the risks and come up with solutions to minimize our member-consumer's exposure to any interruptions in service," Nelsen adds.

Peak alerts will be issued when temperatures hit the mid- to high-90s and electricity use is expected to be at or near maximum levels. Please follow or watch Guthrie County REC's Facebook page for these types of alerts and more information on what you can do to help reduce stress on the power grid.



**Guthrie County REC**

A Touchstone Energy® Cooperative



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[www.guthrie-rec.coop](http://www.guthrie-rec.coop)

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# 2021 CENTRAL IOWA POWER COOPERATIVE POWER SUPPLY REPORT

BY STEVE BIRELINE



After a tumultuous time during the pandemic, 2021 was a year of normalizing operations, creating new ways to work and propelling ambitious projects to completion.

Central Iowa Power Cooperative (CIPCO) reaffirmed its commitment to moving forward with operations and strategies that ensure safe, reliable and cost-effective power for its 13 member-owners, including Guthrie County REC.

## New generation sources

Last year, we witnessed multiple new generation sources come online to support the power needs of CIPCO's member systems, including Guthrie County REC. The \$85 million Summit Lake expansion in Creston is the largest project in CIPCO's 75-year history. Early in the year, we performed a successful "first fire" of the new natural gas-reciprocating engines. As CIPCO continued testing electrical systems, tuned emissions control equipment and completed the final performance test, the new engines achieved full commercial operation April 15. The repowered 110 MW peaking facility has performed well since.

Adding to CIPCO's generation mix through Power Purchase Agreements (PPA) were the commercial operation achievements of both Wapello Solar, LLC, a 100 MW<sub>AC</sub> solar facility owned by Clēnera, and Independence Wind, a 54 MW facility in Delaware County owned by BHE Renewables. Both projects enhance CIPCO's generation mix as a source of low-cost power and providing needed energy and capacity across the

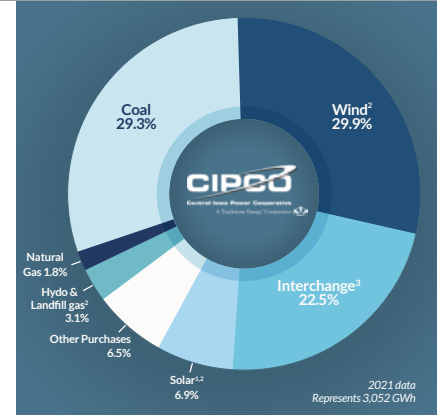
system. This diversity in generation is critical to CIPCO's ability to effectively serve Guthrie County REC.

On the heels of Wapello Solar's launch in April, CIPCO and Clēnera announced plans for a new 100 MW<sub>AC</sub> PPA, Coggon Solar, in northern Linn County. The announcement drew resistance from local residents who publicly pushed to retain the proposed solar site's 640 acres of land for agricultural use. However, diligent and mindful work by CIPCO and Clēnera moved the project forward.

## Essential investments in reliability

Guthrie County REC and CIPCO strive to provide safe, affordable and reliable power to our consumer-members across the system. High-profile generation projects are often in the news, but projects essential to CIPCO's transmission operations are also key components of CIPCO's mission. Each year, CIPCO completes numerous line and substation projects to ensure safe and reliable electric delivery across the system, including nearly 44 miles of transmission line work in 2021.

Weather continues to test rural electric cooperatives across the state, and 2021 was no exception. In February, a large portion of the country experienced a major snow and ice event, followed by record cold temperatures, which debilitated utilities across much of the country. As a result, energy demand and associated prices increased as generation assets stalled in areas not accustomed to such cold weather. While CIPCO and its members largely escaped power outages, the financial impacts from the event rippled throughout the year. Then, Iowa experienced its first-ever recorded derecho in the month of



December that also brought tornadoes. While CIPCO fared better than the August 2020 derecho, the December storm caused significant damage to CIPCO's sizeable 69 kV and 161 kV lines and structures.

CIPCO's commitment to reliability led to a system-wide outage rate of 0.29 hours per consumer without the December derecho and 1.31 hours with the derecho included. For 2021, Guthrie County REC's outage rate was 0.53 hours per customer without the December derecho, and 2.96 hours with the weather event.

## Continued financial strength

Despite rising energy costs in 2021, both Standard & Poor's and Fitch Ratings maintained CIPCO's 'A' ratings, which confirm CIPCO's financial strength. Returning patronage capital is a fundamental component of the cooperative business model and CIPCO remains dedicated to sound financial practices that allow margins to be returned to its members in the form of patronage. In 2021, CIPCO returned patronage totaling \$556,744 to Guthrie County REC.

Lastly, CIPCO celebrated its 75th anniversary year in 2021, and I want to thank you for the privilege to serve on both the Guthrie County REC and CIPCO boards of directors. The actions we take are designed to strengthen the systems and ensure CIPCO is well-positioned to serve its member-owners now and into the future.

*Steve Bireline is president of the Guthrie County REC board of directors and a representative on the CIPCO board.*

<sup>1</sup> CIPCO's purchase power agreement for Wapello Solar LLC locks in stable, long-term pricing and avoids the risks associated with rising fuel costs. Renewable energy certificates (RECs) are not included in this agreement. <sup>2</sup> CIPCO invests in the development of renewable energy projects in several ways. We operate six small-scale solar arrays near communities we serve and retain the renewable energy certificates associated with each. We also contract with energy producers for the electricity output from wind, hydro, and methane gas from a landfill (converted into electricity). CIPCO cannot claim these resources as renewable within our supply portfolio as we have either sold to third parties or do not receive the renewable attributes associated with the electricity produced from these renewable power sources. By selling these attributes (RECs), we not only support other organizations in meeting their renewable energy goals, we also generate revenue to help us lower our wholesale power rate to our 12 Member-owner distribution cooperatives and 15 municipalities. <sup>3</sup> A percentage of market purchases exist within the portfolio to meet additional supply needs not covered by existing contracts or CIPCO-produced generation. Weather volatility and unplanned operational events at power plants may also impact market purchases.

# UNDERSTANDING THIS SUMMER'S ELECTRIC GRID RELIABILITY CONCERNS

BY ANN FOSTER THELEN

The North American Electric Reliability Corporation (NERC) recently released a reliability report indicating that many states, including Iowa, are at an increased risk for power generation shortfalls this summer. Decreased power generation capacity, increased electricity demand, above-normal temperature forecasts and drought conditions contributed to NERC's assessment.

You might have noticed local, state and national headlines warning of impending power outages based on the report's findings. While many of us remember the polar vortex outages that impacted Texas in February 2021, Iowans aren't accustomed to these types of news reports about potential outages based on energy supply.

What does this report mean for Iowa's electric cooperative member-consumers, and why is electricity generation a concern now? While the information warrants awareness and consideration, there is no reason to panic.

## Reliability is paramount

First and foremost, locally owned electric cooperatives are committed to providing member-consumers with reliable electric service around-the-clock. Iowa's electric co-ops rely on an "all-of-the-above" generation strategy, including coal, natural gas, hydropower, wind and solar resources. Ensuring reliability involves a portfolio of diverse options to meet consumers' energy needs while also prioritizing our commitment to affordability and environmental responsibility.

Sources of electric generation have changed dramatically over the past 20 years. More renewable energy sources (wind and solar) have been integrated into the power grid while traditional baseload generation sources (coal and nuclear) have been shut down or retired. Renewable energy is also considered intermittent because the wind doesn't always blow, the sun doesn't always shine, and large-scale battery storage isn't yet feasible. Because of these factors, resources that can be used regardless of weather conditions, such as coal, nuclear, hydro

and natural gas, are still critical to ensuring reliable, 24/7 generation.

## Power generation and demand mismatch

The power grid is complex and vastly interconnected, even though it might seem simple at the local level. The poles and wires you see dotting Iowa's countryside and leading to your home or business are just one part of a complex grid that includes local distribution systems and transmission infrastructure. Many of Iowa's electric cooperatives are part of regional transmission organizations or independent system operators, which coordinate, control and monitor a multistate electric grid (see sidebars about SPP and MISO). These federally created organizations act as "air traffic controllers" to enable the reliable and cost-effective delivery of electric service.

Unlike water or gas, electricity cannot be effectively stored in large quantities at this time. Electricity must be consumed the instant it is generated, which requires supply

to be kept in constant balance with demand. That's where organizations like SPP and Midcontinent Independent System Operator (MISO) provide incredible value; they constantly monitor electric demand regionally and manage available electric generation resources to maintain an equal balance.

### Controlled interruptions

In the rare event that electric demand exceeds available supply, deliberate and thorough plans are in place to keep the grid from shutting down and to minimize interruptions to electric service. Groups like SPP and MISO, along with electric cooperatives, are planning and preparing every minute of every day to use tools and resources to balance electric demand and supply. Some Iowa electric cooperatives have voluntary load management programs in place to cycle off water heaters, air conditioners and commercial/industrial loads to quickly reduce electric demand. Interruptions of electric service are a last resort but could still take place in some areas.

In the news, member-consumers might hear the term "load shedding," which in simple terms means a reduction in electric demand is needed. If this occurs, a controlled and temporary power interruption could take place on

certain portions of the grid to decrease electric demand so it matches the available electric supply on the regional grid. If these brief power interruptions are needed on high-demand days this summer, they would likely last for a couple of hours or less. While highly unlikely, these temporary, controlled power interruptions are protection mechanisms designed to prevent catastrophic, system-wide damage to the regional power grid.

### What are electric cooperatives doing?

Those managing the ongoing energy transition must recognize the need for time, invest in technology development and be inclusive of various energy sources to maintain reliability and affordability. A resilient and reliable electric grid that affordably keeps the lights on is essential to daily life. Iowa's electric cooperatives will continue to advocate for an all-of-the-above energy strategy with policymakers. A diverse energy mix that includes adequate baseload supply is essential to providing member-consumers with safe, reliable, affordable and environmentally responsible energy for the long term.

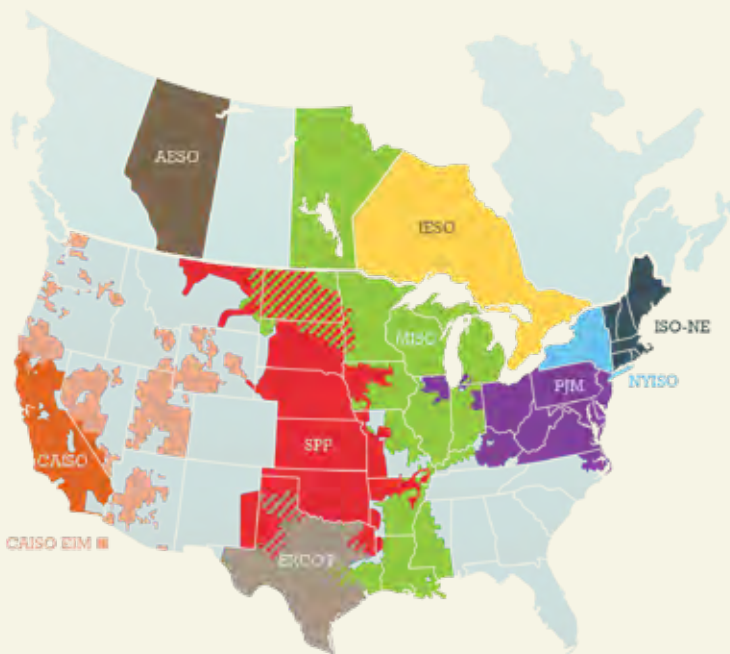
Your electric cooperative might offer load control programs or have suggestions for conserving energy to lower electric use

on high-demand days. If a temporary, controlled interruption is necessary, it could occur with little notice. Follow your cooperative on social media, monitor its website or contact them directly for the most up-to-date information.

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

## WAYS YOU CAN CONSERVE ENERGY DURING HIGH-TEMPERATURE WEATHER EVENTS

- Increase your thermostat a few degrees. For example, if a normal setting for your home is 75 degrees, raise it to 78 degrees or higher.
- Limit using large appliances (e.g., ovens, washing machines, electric clothes dryers, etc.) during the late afternoon and early evening hours.
- Unplug devices that are not in use.
- Turn off unnecessary lights.
- Close blinds and drapes during peak hours (typically mid- to late-afternoon and early evening hours) and operate ceiling fans counterclockwise.



**If you have questions about grid reliability, please contact your local electric cooperative.**

### WHAT IS SPP?

Located in Arkansas, SPP (Southwest Power Pool) is a regional transmission organization (RTO) – a nonprofit corporation mandated by the Federal Energy Regulatory Commission (FERC) to ensure reliable power supplies, adequate transmission infrastructure and competitive wholesale electricity prices on behalf of its members. SPP oversees the bulk electric grid and wholesale power market in the central U.S. on behalf of a diverse group of utilities, including some electric cooperatives, and transmission companies in 17 states, including portions of western Iowa.

### WHAT IS MISO?

Headquartered in Indiana, MISO (Midcontinent Independent System Operator) is an independent, not-for-profit, member-based organization responsible for operating the power grid across 15 U.S. states, including portions of Iowa, and the Canadian province of Manitoba. 42 million people depend on MISO to generate and transmit the right amount of electricity every minute of every day. MISO is committed to delivering electricity reliably, dependably and cost-effectively. In addition to managing the power grid within its region, MISO administers the buying and selling of electricity, and partners with members and stakeholders to plan the grid of the future.



## TERIYAKI STEAK

- 1 cup soy sauce
- 1 cup water
- ¼ cup sugar
- ½ teaspoon ginger powder
- ¼ teaspoon garlic powder
- 1 shot Saki wine
- 2 or 3 sirloin steaks, cut ¾-inch thick

Mix marinade ingredients together and marinate steak on one side for at least 1 hour. Turn steaks and marinate for 1 more hour. Grill to your taste.

Lea Bradley • Mount Pleasant  
Access Energy Cooperative

## TERIYAKI PORK CUBES

- 3-4 pounds pork chops or roast
- ½ teaspoon Accent meat tenderizer
- 2 cloves garlic
- 1 tablespoon brown sugar
- ½ teaspoon ginger
- ½ teaspoon pepper
- 1 teaspoon water
- ¼ cup soy sauce
- ½ cup oil

Cut meat into 2-inch pieces and sprinkle with meat tenderizer. Mix remaining ingredients and pour over meat. Marinate for 1.5 hours or longer before grilling. Can be stored in the refrigerator for 24 hours. Grill 10-15 minutes until done.

Kamie Meyer • Lester  
Lyon Rural Electric Cooperative

## GRILLED VEGETABLES WITH BALSAMIC VINAIGRETTE

- 1 medium eggplant
- 2 medium zucchinis
- 2-3 medium yellow squash
- 2 medium red bell peppers
- ¾ cup olive oil
- ¼ cup balsamic vinegar
- 1 teaspoon salt
- ¼ teaspoon black pepper
- 1 clove garlic, minced
- 2-3 tablespoons mixed herbs, finely chopped

Slice eggplant, zucchini and squash lengthwise into ½-inch slices. Core, seed and cut red pepper into 1-inch-wide slices. Combine remaining ingredients and pour over vegetables. Let stand for at least 30 minutes. Oil hot grill to prevent sticking. Lift vegetables from vinaigrette and place on grill for 10-15 minutes or until fork tender, turning once or twice. Remove from grill. Remaining vinaigrette may be poured over vegetables just before serving. *Serves 6*

Mary Schreur • Kanawha • Prairie Energy Cooperative



## BRATWURST SUPPER

- 3 pounds bratwurst links, uncooked
- 3 pounds red potatoes, cut into chunks
- 1 pound baby carrots
- 1 red onion, sliced into rings
- 1 4-ounce jar mushroom stems (7 pieces), drained
- ¼ cup butter
- 1 envelope onion soup mix
- 2 tablespoons soy sauce
- ½ teaspoon pepper

Cut bratwurst links into fourths. Place bratwurst, potatoes, carrots, onions and mushrooms in a greased tinfoil roaster pan. Dot with butter. Sprinkle with soup mix, soy sauce and pepper. Stir lightly to mix and cover with tinfoil. Grill covered over medium heat for 60 minutes or until vegetables are tender and sausage is no longer pink, stirring once. *Serves 12*

**Stephanie Messner • Rock Rapids  
Lyon Rural Electric Cooperative**

## GRILLED PINEAPPLE

- 1 large pineapple
- 2 tablespoons brown sugar
- 2 tablespoons honey
- 1 tablespoon hot water
- pinch salt
- oil

In a small bowl, whisk together brown sugar, honey, hot water and salt until combined. Peel pineapple, cut into ¾-inch slices and place in a gallon-sized zip-lock bag. Add brown sugar mixture, then seal the bag and shake it until the pineapple is evenly coated. Let sit at room temperature for 15 minutes. While pineapple sits, preheat the grill on high heat. After 15 minutes, scrape the grill grates and then lightly oil them. Place the pineapple slices on the grill for 2-3 minutes or until heated through and grill marks appear. Flip the pineapple and grill for another 2-3 minutes. Serve immediately.

**Deanna Foreman • Rock Valley  
North West Rural Electric Cooperative**

## GRILLED ASPARAGUS WITH BACON

- 1 pound fresh asparagus spears, trimmed
- bacon slices
- salt and pepper, to taste

Preheat grill on high heat. Group 3-4 asparagus spears, wrap with a bacon slice and secure with a toothpick. Repeat then season with salt and pepper to taste. Place asparagus bundles on aluminum foil or grill pan. Grill over high heat for 3-5 minutes to desired tenderness for asparagus, turning once to cook bacon completely. *Serves 4*

**Denise Anderson • Ocheyedan  
Osceola Electric Cooperative, Inc.**

## PIZZA DOGS

- 1½ pounds ground beef
- 1 teaspoon salt
- 1 teaspoon pepper
- 1 teaspoon oregano
- ½ teaspoon garlic powder
- ½ teaspoon onion powder
- mozzarella sticks
- hot dog buns
- mozzarella cheese slices
- ½ cup pizza sauce
- pepperoni slices (optional)

Mix all seasonings with ground beef. Take a ball of meat and flatten out then wrap around a cheese stick, giving it a hot dog shape. Grill for 15-20 minutes or until the meat is cooked. Add mozzarella cheese slices to hot dog buns and toast under a broiler or on the grill for 3-5 minutes. Place pizza dogs into bun and top with pizza sauce and pepperoni slices if desired. *Serves 5*

**Crystal Hammes • Libertyville  
Access Energy Cooperative**

## MARINADE FOR GRILLED PORK CHOPS

- ¼ cup soy sauce
- ¼ cup Italian dressing
- 1 teaspoon dry red pepper flakes
- 1 tablespoon sugar
- 3 garlic cloves, minced
- 2 pounds pork chops

Mix all ingredients and marinate pork chops before grilling. *Serves 4*

**Emily Rassi • Rock Rapids  
Lyon Rural Electric Cooperative**

**WANTED:**

## THANKSGIVING SIDE DISH RECIPES

**THE REWARD:**

**\$25 FOR EVERY ONE WE PUBLISH!**

**Deadline is July 31**

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](mailto: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



# WHAT YOU NEED TO KNOW BEFORE CONSIDERING SOLAR

BY MIRANDA BOUTELLE

Often, homeowners conflate installing solar at home with energy efficiency. But what most people don't realize is solar is not energy efficiency. Solar is generating energy. Energy efficiency is finding ways to use less energy. While these are not one in the same, both are thought of as beneficial to the environment and a way to save money.

If you are interested in installing solar, it is important to understand your motivations. It may be saving money, concern for the environment or both. Focusing first on energy efficiency can address both motivations.

Here are the five key energy efficiency

considerations to evaluate when adding solar to your home.

## 1 Energy consumption

Solar systems are sized based on a home's energy needs. The larger the system, the higher the cost. Before installing solar, make sure your home is as energy efficient as possible. That means it will use less energy and allow you to install a smaller solar system – which will save money and reduce your home's environmental impact.

Verify the efficiency of your lighting, HVAC systems and insulation. A fully insulated and air-sealed home uses less energy, and those insulation

measures are less expensive than solar panels. Finish these energy efficiency projects before installing solar.

## 2 Affordability

Consider your overall out-of-pocket expenses. The expected lifespan of a heating and cooling system is 15 to 25 years. Check the age and condition of your HVAC equipment and consider the expenses of replacement.

## 3 Roofing

Consider the age, orientation and shade of your roof. It is more difficult and expensive to reroof a home with solar panels. Evaluate if the



roof will need to be replaced before the solar panels need to be replaced.

The best orientation for solar panels is south facing to receive direct light throughout the day. A shaded roof helps keep your home cool in the summertime but reduces solar energy production.

**4 Maintenance**  
A solar system doesn't last forever. Lifespans range from 25 to 30 years. As systems degrade over time, they produce less energy. Maintenance and repairs may be needed.

**5 Electric bills and storage**  
Solar is not "off the grid." Unless you plan to disconnect from your electric co-op, you will still receive a monthly bill.

Solar panels only produce power when the sun is shining. If you want power to your home at other times, like after dark, you need to be connected to your electric co-op or invest in battery storage system, which comes at an additional cost.

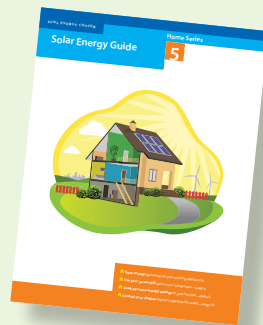
During power outages, don't assume solar panels will supply you with power. Typical solar interconnection to the grid requires panels to shut down during a power outage. This protects lineworkers from injury while making repairs.

**Contact your electric co-op**  
Solar contractors often work in several utility service territories and may not be familiar with your co-op's offerings, rate structures and interconnection agreements. Before signing an agreement, check with your electric co-op for local information rather than relying on what the contractor says.

As with any other system for your home, get bids from three contractors to compare equipment and pricing. Another option may be community-owned solar. Many electric co-ops offer community solar programs. You may have an option to enjoy the benefits of solar without the responsibilities of ownership and maintenance.

Understanding these considerations before installing solar will ensure you meet your money-saving and environmental goals.

*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.*



## SOLAR ENERGY GUIDE

Iowa's electric cooperatives are committed to helping member-consumers make educated energy decisions that make sense for their home or business. Before moving ahead with a solar project, contact your local co-op first and also review the Solar Energy Guide for tips and to learn interconnection requirements.

[www.iowarec.org/publications/solar-resources](http://www.iowarec.org/publications/solar-resources)

## TOP 10 CONSIDERATIONS BEFORE INSTALLING SOLAR

- 1 Address energy efficiency.** Implementing energy efficiency measures in advance can help reduce your overall energy or water consumption, and subsequently, the size of your solar system.
- 2 Do your homework before writing a check.** Talk to your electric co-op at the outset of the process. Then speak with credible, reputable sources who are skilled professionals that will help guide you through the process.
- 3 Know your co-op's rate structure and policies.** Your co-op will help you understand the rate structure and what type of charges are likely to be incurred. They will also let you know how you will be compensated for the excess, unused energy that is generated by your solar system.
- 4 Analyze your electric load.** Understanding your electricity use and overall energy needs will help determine if solar is a good investment for you.
- 5 Determine costs upfront.** You will likely be responsible for initial upfront costs to install the system, as well as maintenance and repair costs. Doing your homework upfront will help determine if it is economical for your energy needs.
- 6 Research incentives and tax credits.** Visit with your co-op to see if there are financial incentives to offset your investment costs. These are often driven by laws and policies and can vary on the type and size of system.
- 7 Understand responsibilities.** A variety of parties are involved in making a solar project a reality, so it's important to know exactly what tasks and costs you're responsible for.
- 8 Know safety requirements.** Solar is connected to the grid, so it's important that you work with your co-op to ensure you're meeting their requirements to keep the grid reliable and safe.
- 9 Choose a reputable vendor.** It is important to find a reputable installer who will give you realistic expectations. Ask for references, check reviews and ask for third-party input.
- 10 Keep thorough records.** Establish a thorough record-keeping process to retain all data and research you gather.



# OPERATIONS DEPARTMENT FACES A BUSY SUMMER SEASON

BY CURT KNAPP



The line crew and operations department at Guthrie County REC work hard every day to ensure our member-consumers have the power they need when they

need it. That means we're out when temperatures and humidity are high, the wind is strongly blowing, or working through the night to restore power after severe storms.

As part of our annual work plan, we have rebuilt 5 miles of line that were identified for replacement due to age. We are on track to reach our goal of rebuilding 20 miles of line before the end of our fiscal year. We also have been working on building service lines to connect new homes in the area and assisting Dallas County by

moving our lines out of the way of new bridge construction projects. The development we see in this part of our territory continues to draw our attention as folks move in.

Thankfully, the supply chain issues you've likely been hearing about have not severely impacted our ability to secure needed equipment and supplies. There have been a few times where we have run into problems ordering from our normal suppliers that told us items were on backorder or would take longer than usual to get. However, we've been able to find other suppliers with materials available to get us what we need. When there are delays receiving materials, our line crews have plenty of other projects to keep them busy while they wait!

As we are now in the summer storm season, I want to make sure our member-consumers are reminded to stay away from any downed power



lines, even if you believe they are not energized. And if you experience an outage, don't assume your neighbor reported it. Please give us a call and let us know. Any details you can provide help us immensely as we plan our power restoration efforts following major storms. Above all, we want you and our linemen to be safe while we make every effort to restore your power as quickly as possible.

*Curt Knapp is the line superintendent for Guthrie County REC.*

**BEAT THE HEAT**

- DRINK WATER**  
Don't wait until you're thirsty
- AVOID PEAK TIMES**  
between 10 am and 4 pm
- KEEP COOL**  
and protect your skin
- LOOK BEFORE YOU LOCK**  
Never leave children or pets inside a hot car
- SEEK SHADE**  
under a tree or umbrella

**Utility poles are not bulletin boards**

**Posting signs on utility poles puts our linemen at risk.**

 **Guthrie County REC**  
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# KEEP YOUR COOL: FIVE TIPS TO STAY SAFE IN EXTREME HEAT

BY ABBY BERRY

The dog days of summer typically bring the warmest, sultriest temperatures of the year. Even if you're a summertime enthusiast, it's important to stay cool during extreme heat.

According to the Centers for Disease Control and Prevention (CDC), more than 700 people die from extreme heat every year in the U.S.

Factors like obesity, age and alcohol intake can impact how a person reacts to extreme heat. High humidity also contributes to heat-related illness because we don't sweat as quickly – meaning our bodies can't release heat as fast – when humidity levels are high.

Take extra steps to cool off, keep hydrated and stay informed. Here are five tips recommended by the CDC to help you stay cool during extremely warm weather:

- 1 Stay in an air-conditioned home or building as much as possible. Limit outdoor activity, especially midday when the sun is hottest. If your home is not air conditioned, call the local health department to locate public facilities or shelters.
- 2 If you must be outdoors, wear loose, light-colored clothing and apply sunscreen often.
- 3 Drink more water than usual. Don't wait until you're thirsty to drink more.
- 4 Take cold showers or baths to cool down.
- 5 Avoid using the oven or stove to cook. These appliances add heat to your home. Try using the microwave or a slow cooker instead.

Remember to look after those who may need extra help. People 65 years



of age or older are at greater risk of heat-related illness, so check on your senior neighbors and friends. Children under the age of two and pets are also more susceptible to heat stroke. Never leave a child or pet in a vehicle, even if only for a minute.

If you work outdoors, use a buddy system to monitor your co-workers and have someone do the same for you!

Heat-induced illness can happen to anyone, even to those who are perfectly healthy. If you're outdoors during extremely warm weather, monitor how you're feeling, stay hydrated and keep an eye on those around you.

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

## STAY COOL DURING EXTREME HEAT.



- Limit outdoor activity.
- Stay hydrated.
- Check on friends and neighbors who are at greater risk.

# HOW TO SAFELY USE A GENERATOR

Before using a portable generator, it's essential to understand the potential dangers associated with using them, such as their production of carbon monoxide (CO). CO is an odorless, colorless and tasteless poisonous gas that is called the "silent killer" because it is virtually undetectable without the use of technology like CO alarms. Follow these tips when using a generator.

- **Read and follow all manufacturer operating instructions to properly ground the generator.** Be sure you understand the directions before hooking up the generator.
- **A generator is a temporary power source.** It should never be used as a permanent solution.
- **Maintain adequate ventilation because generators emit CO.** It's against fire code to operate a generator in your home, garage or other enclosed building. Place it in a dry location outdoors. The Consumer Product Safety Commission recommends generators be positioned at least 20 feet from doors, windows and vents to prevent CO from entering the home.
- **Never plug a portable electric generator into a wall outlet or connect directly to a home's wiring.** This can energize utility power lines and injure you or others working nearby. Electrical back feed can also damage the generator and home electrical equipment.
- **Turn off the generator and allow cooling before refueling.** Gasoline and its vapors may ignite if they come in contact with hot components or an electric spark. Store fuel in a properly designed container in a secure location away from the generator or other fuel-burning appliances, such as water heaters. Always have a fully charged, approved fire extinguisher located nearby.



- **Protect your appliances.** Turn off or disconnect all appliances and lights before you begin operating the portable generator. Once the generator is running, turn your appliances and lights on one at a time to avoid overloading the unit. Remember, generators are for temporary usage, prioritize your needs.
- **Generators pose electrical risks especially when operated in wet conditions.** Use a generator only when necessary when the weather creates wet or moist conditions. Protect the generator by operating it under an open, canopy-like structure on a dry surface where water cannot form puddles or drain under it. Make sure your hands are dry before touching the generator.
- **Keep children and pets away from portable generators at all times.** Many generator components are hot enough to burn you during operation.
- **Use proper extension cords.** Use only safety-tested, shop-type electrical cords designed and rated for heavier, outdoor use to connect appliances. Many generators are equipped with twist-lock connects to reduce the chance of accidental disconnections due to vibrations.
- **Shut down the generator properly.** Before shutting down a generator, turn off and unplug all appliances and equipment being powered by the generator.
- **Remember maintenance between uses.** Drain the gasoline from the generator while it is being stored. It's also a good idea to inspect the fuel and oil filters, spark plug, oil level and fuel quality, and to start the generator on a regular basis before an emergency situation happens.

For more information, visit Safe Electricity at [safeelectricity.org](http://safeelectricity.org)

# THE GIFT OF A BRIDGE

BY VALERIE VAN KOOTEN

A much-wanted gift finally materialized about a year ago. Kent and I had always discussed placing a bridge across the creek that separates our land from my parents' and my sister's. Without it, the only way to get to either of them was down our dead-end road and up a gravel one, 1.5 miles out of the way on a busy road.

Kent finally had all the pieces to put our bridge together. Someone was getting rid of a dock on their pond, so he and our son Colin dismantled it, and it became the bridge itself. Iron beams, pipes and whatever other paraphernalia are needed to make a bridge were finally in our possession. We would become bridge builders.

Well, Kent would. I'm not much good in the way of building anything. Even constructing a pillow fort in our living room with the grandkids is fraught with anxiety. So, I cheered on the bridge that would cross the 15 or so feet from bank to bank of what we call Meadow Creek.

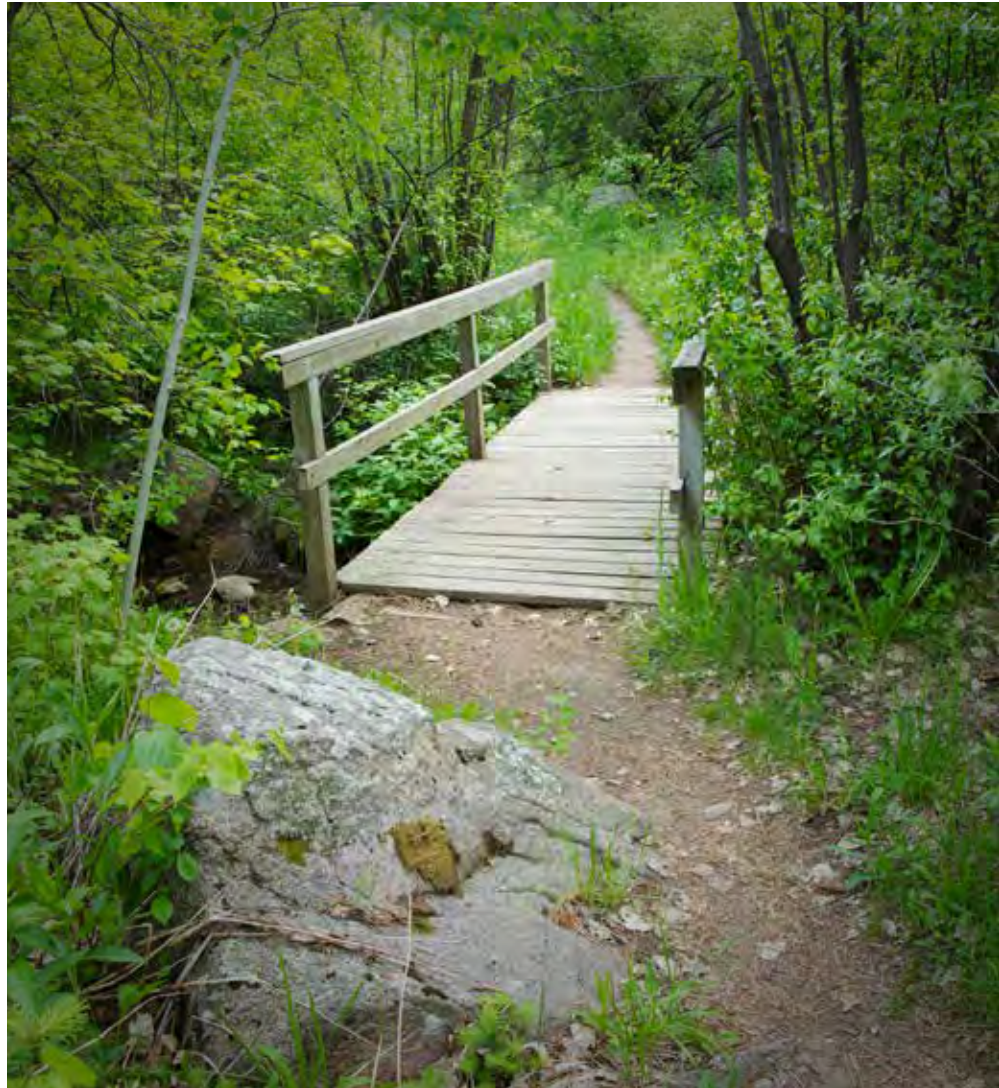
## A whole new world

Saying that the bridge changed my life might be a little melodramatic, but it certainly added a depth to my days that I hadn't anticipated. The four of us – my sister, my parents and I – share notes about our 4-wheeler rides and what we've found: a beaver dam, a new fawn, the old foundation of a country school that used to sit on my parents' acres.

I ride out there as frequently as the weather, the crops and my schedule allow. There's the Pig Wood, a stately stand of trees that once housed hogs in A-frames, with the remnants of one still remaining; my folks' cook spot, the site of many bonfires, sledding parties and weenie roasts; and a piece we call "Nebraska," because it's so far out of the way.

## Imaginations run wild

At the back of the properties runs



Thunder Creek, a slow, wide stream that travels across the north end of Marion and Mahaska Counties and connects the Des Moines River with the South Skunk River. On a cool evening, I watched the bend that wraps around the north end of the field, and I could almost see the Native Americans who used this creek for a shortcut from one river to the other, canoeing slowly as they progressed. I surveyed the spots where I would put a cabin if I were homesteading in the 1840s. I watched the sun send streams through the Pig Wood, turning it into a medieval glade. My grandson, riding along with me, said,

"It's like a fairy tale, isn't it, Grandma?" and I replied, "It certainly is."

It's hard to describe the love of land where you know you belong. You feel its pull in your blood, in your heritage and in your responsibilities toward it. You can sense the generations that lived there before, whether you are related to them or not.

And in a medieval glade at sundown, you just might find yourself in the middle of a fairy tale.

*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.*



Guthrie County REC

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IOWA ELECTRIC COOPERATIVE LIVING

The magazine  
for members of  
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cooperatives.

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