

COOPERATIVE CONNECTIONS



Building Communities

REED Fund Helps
Support Local Growth
Pages 8-9

DERs and the
Electrical Grid
Pages 12-13

Dave Eide, right, presents a check to Jason Foster, left, fire chief of Garden City Fire Department. Through the REED fund, the department secured a loan to renovate the fire hall.



FEM staff meet with the board of directors at the December meeting.

December Board Report

A regular meeting of the Board of Directors of FEM Electric was held in Ipswich, South Dakota at 8:30 a.m. on December 17, 2024, pursuant to due call and notice. It being determined that a quorum was present, President Gary Bachman called the meeting to order. Secretary Eric Odenbach kept the minutes of the meeting. The following directors were declared present by roll call: Gary Bachman, Paula Petersen, Tom Thorpe, Eric Odenbach, Kelly Melius. Electrical Manager Ryan Holien, Director of Finance and Benefits Rhonda Tuschere, Operation Manager Sean Christiansen, Manager/CEO Scott Moore.

Guest Employee: Barb Schaefer

Changes to the agenda: None

Changes/Additions to Minutes from November 19, 2024, meeting: None

Next Meeting Date: After a review of calendars, directors agreed that the next regular meeting of the board would be on Tuesday, January 21, 2025, at 8:30 a.m. to be held at FEM Electric Board Room in Ipswich, South Dakota.

Motion by Tom Thorpe, seconded by Kelly Melius and carried to approve administrative business.

Motion by Eric Odenbach, seconded by Paula Petersen and carried to acknowledge manager and staff reports.

Scott Moore discussed an employment change with the board.

November 2024 Cyber Security Report was acknowledged.

Representatives from CoBank Josh Rife and Keith Schieler joined the meeting to explain equipment lease options with FEM Electric board and staff. Angie Sieh joined the meeting.

Resolutions and Contracts:

Motion by Eric Odenbach seconded by Tom Thorpe and carried to approve the following employees to committees:

Scholarship Committee for 2025:

Crystal Thorson, Will Olson, Barb Schaefer, Perry Ptacek, Ryan Holien

Safety Committee for 2025:

Sonje Oban, Sean Christiansen, Logan Gruenstein, Perry Ptacek, Ryan Holien

Grievance Committee for 2025:

Dan Feldhaus, Perry Ptacek, Crystal Thorson

Motion by Paula Petersen seconded by Kelly Melius and carried to nominate Gary Bachman as NRECA voting delegate

and Ryan Holien as NRECA alternate voting delegate.

Motion by Kelly Melius seconded by Eric Odenbach and carried to nominate Gary Bachman as NRTC voting delegate and Ryan Holien as NRTC alternate voting delegate.

Membership Business:

Board acknowledged membership business.

New Memberships, Member Cancellations and Contracts:

Disconnects: Edward & Tonya Kirschenmann, Watertown, SD, Active Farm; Evergreen Colony, Faulkton, SD, Sand Blast Service

Reconnects: Tammy Lowe & Bill Kirschenmann, Watertown, SD, Active Farm; Steinbauer, LLC, Faulkton, SD, Sand Blast Service

Contracts: Maurer Harvesting & Trucking, Ipswich, SD, House

Retired Locations: Tommy Kolb, Forbes, ND, Pasture Pump; Linda Brooks, Aberdeen, SD, Pasture Pump; Joshua Heinrich, Tolstoy, SD, Pasture Pump

Motion by Kelly Melius seconded by Paula Petersen and carried to approve one construction contract for new service.

Capital Credits:

Estates - December 2024 - Two = \$4,699.75

73 & Older - December 2024 - None

Rhonda reviewed the 2024 Basin Capital Credit Retirement with the board.

Aberdeen Energy Service Agreements have not been signed and returned. This will be a future agenda item once received.

Continued on page 6

**COOPERATIVE
CONNECTIONS**

**FEM ELECTRIC
ASSOCIATION**

(USPS 189-720)

Board of Directors

Gary Bachman, President
Tom Thorpe, Vice President
Eric Odenbach, Secretary
Paula Petersen, Treasurer
Kelly Melius, Asst. Secretary/
Treasurer
Vaughn Beck, Attorney

CEO/General Manager

Scott Moore
info@femelectric.coop

Management Staff

Sean Christiansen
Operations Manager
Ryan Holien
Electrical Department Manager
Rhonda Tuscherer
*Director of Finance and
Benefits*

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FEM ELECTRIC COOPERATIVE CONNECTIONS is the monthly publication for the members of FEM Electric Association, Inc., 800 5th Ave., Ipswich, SD 57451. FEM Electric Cooperative Connections' purpose is to provide reliable, helpful information to members on electric cooperative matters and better living.

Subscription information: As part of their membership, FEM members devote \$1.00 from their monthly electric payments for a subscription. Nonmember subscriptions are available for \$15 annually. (USPS 189-720) Periodical Postage Paid at Ipswich, SD 57451 and at additional offices.

POSTMASTER: Send address changes to FEM Electric Cooperative Connections, Box 468, Ipswich, SD 57451-0468.

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Scott Moore
General Manager/CEO

As FEM Electric finalizes 2024 it is good to report that we should end the year financially strong. The operations department also had a good year completing projects.

We heard on the week of December 23, 2024, that FEM Electric has been awarded FEMA Mitigation funds to assist in replacing two miles of three phase overhead and seven miles of single-phase overhead with new underground electric line. These two project applications were submitted over eight years ago and FEM Electric is fortunate to have qualified for this round of funding. These mitigation projects are managed through South Dakota Department of Emergency Management. The grant will pay 75% and FEM Electric will pay the remaining 25% of the construction cost. If we can get the material the projects will be completed in 2025.

The 2025 budget has been approved and the operations department plans to replace an additional thirteen miles of

existing overhead electric lines with new underground wire and five miles of aging three-phase underground with new underground wire.

I am sure we will see expansions with grain handling facilities on and off the farm, several new homes and many discussions on large loads. Several years ago, animal confinements were becoming a top discussion but due to market conditions many of those discussions were put on hold. The FEM Electric territory is lucky to have multiple state highways, a rail system, natural gas, rural water systems, and good electric transmission system with some excess capacity. Working together, these services help our current and future members grow their operations.

As we finish 2024, I hope everyone can reflect on the good and positive happenings from 2024. As we move to 2025 let us keep everyday safety in our thoughts as we plan for a successful and safe year.

As you hang your new calendars please mark June 24, 2025, for FEM Electric's annual meeting.

If you are planning on adding any electrical load, please contact Sean Christiansen or Ryan Holien 605-426-6891.

Statement Mailing Dates

February 27, 2025 for February's energy
March 26, 2025 for March's energy

Regardless of the statement mail out date, payments are due in the office by the 9th of the following month.

Fire Safety

Cooking and heating are the leading causes of home fires and fire injuries, and winter months are the peak time for fire-related deaths.

Minimize Your Risks

The good news: Deaths from home fires in the U.S. have trended downward since the 1970s, according to Injury Facts, but even one death from a preventable fire is too many. While fire doesn't discriminate by age, it is the third leading cause of death for children 1 to 14.

When cooking, make fire safety a priority by keeping these tips in mind:

- Be alert; if you are sleepy or have consumed alcohol, don't use the oven or stovetop
- Stay in the kitchen while you are frying, grilling, boiling or broiling food
- When simmering, baking or roasting, check the food regularly, remain in the kitchen while cooking and use a timer
- Keep anything that can catch fire away from your stovetop

Heating is the second leading cause of home fires.

Follow these tips:

- Keep all flammables, like paper, clothing, bedding, drapes or rugs, at least three feet from a space heater, stove or fireplace
- Never leave portable heaters and fireplaces unattended; turn off heaters and make sure fireplace embers are extinguished before leaving the room
- If you must use a space heater, place it on a level, nonflammable surface, like ceramic tile, not on a rug or carpet
- Keep children and pets away from space heaters
- When buying a space heater, look for models that shut off automatically if the heater falls over

Other top causes of fire include smoking, electrical problems and candles. To minimize risks:

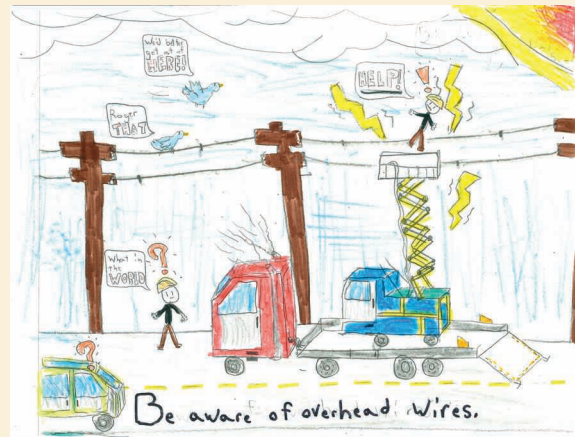
- Institute a "no smoking" policy in the house
- Check all cords and replace any that are frayed or have bare wires
- Switch to flameless candles
- Keep matches and lighters high and out of children's reach in a locked cabinet

Working Smoke Alarms Are a Must

Replacing the Battery on a Smoke Alarm About three out of five fire deaths happen in homes without working smoke alarms. Smoke alarms are a key part of a home fire escape plan providing early warning to reduce your risk of dying in a fire. The National Fire Protection Association recommends you:

- Install smoke alarms on every level of your home, inside bedrooms and outside sleeping areas on the ceiling or high on the wall
- Keep smoke alarms away from the kitchen, at least 10 feet from the stove, to reduce false alarms
- Use special alarms with strobe lights and bed shakers for people who are hard of hearing or deaf
- Test smoke alarms monthly
- Replace batteries in your smoke alarm and carbon monoxide detector annually
- Replace smoke alarms that are 10 or more years old

Source: National Safety Council



"Be aware of overhead wires."

Vance Claeys, Age 11

Vance Claeys cautions readers to be careful when working around power lines. Thank you for your picture, Vance! Vance's parents are Jake and Bridget Claeys, members of Lyon-Lincoln Electric.

Kids, send your drawing with an electrical safety tip to your local electric cooperative (address found on Page 3). If your poster is published, you'll receive a prize. All entries must include your name, age, mailing address and the names of your parents. Colored drawings are encouraged.

SOUP

Sensation

BROCCOLI CHEESE SOUP

Ingredients:

- 1 large pkg. frozen broccoli
- 1/4 cup water
- 3 tbsps. margarine
- 10 oz. package corn
- 1/4 cup chopped carrots
- 1/4 cup chopped onion
- 1/4 tsp. pepper

Cook the above and add
 3 cans cream of potato soup
 3 cups milk
 2 cups shredded Cheddar cheese
 1/2 cup shredded Monterey Jack cheese
 Stir until melted

LaVonne Schmidt
 Sioux Falls, S.D.

NORWEGIAN FRUIT SOUP

Ingredients:

- Bring 1/2 gallon water to a slow boil.
- Add 1 pkg. of sweetened dried cherries, banana chips, apricots, prunes, 2 apples (all cut into pieces)
(Optional to use any dried fruit you wish)
- 1/2 cup golden raisins
- 1/2 cup regular raisins
- 2 whole cloves
- 2 cinnamon sticks
- 1 cup sugar (you can use Splenda)

Method

Boil slowly for one hour add 3 tbsps. tapioca and a large pkg. of cherry jello.
 Refrigerate and serve with whip cream.

Kari Reder
 Warner, S.D.

CABBAGE SOUP

Ingredients:

- 1-2 tbsps. vegetable oil
- 1 pkg. (14 oz.) smoked sausage, sliced 1/4 in. thick
- 1 large yellow onion, chopped
- 1 tbsp. tomato paste
- 1 small green cabbage, cored and shredded (about 8 cups)
- 1 medium carrot, finely chopped
- 1 can (14 1/2 oz.) petite diced tomatoes
- 1 1/2 tsps. salt
- 1/2 tsp. garlic powder
- 1/2 tsp. ground black pepper
- 1/4 tsp. onion powder
- 1/8 tsp. crushed red pepper
- 4 cups chicken stock or broth
- 1 can (15 1/2 oz.) white beans, drained and rinsed
- 1 tbsp. white wine vinegar

Method

Heat oil and cook sausage, until browned. Remove from skillet. Add onion and tomato paste; cook and stir until onions are slightly softened and tomato paste has darkened. Add cabbage and carrots to stockpot. Cook, stirring frequently, about 30 minutes or until cabbage has softened and begins to caramelize. Stir in tomatoes, salt and spices. Cook 10 minutes longer or until cabbage is very soft. Return sausage to pot. Stir in stock and beans. Bring to boil. Reduce heat and simmer 10 minutes. Stir in vinegar. Serve hot, sprinkled with freshly grated Parmesan cheese, if desired.

McCormick.com

Please send your favorite recipes to your local electric cooperative (address found on Page 3). Each recipe printed will be entered into a drawing for a prize in December 2025. All entries must include your name, mailing address, phone number and cooperative name.

BOARD REPORT CONTINUED

Board Report Continued from page 2

Board acknowledged receipt of following financial business.

Financial Business: The board acknowledged reviewing the following financial information: The check register for the month of November 2024 contained information on checks #34820 through #34885 and all automatic payments/withdrawals for November 2024 totaling \$434,774.72.

Board acknowledged receipt of November 2024 financials.

Aid-to-construction Y-T-D 2024 = \$111,530.76.

Bad Debt Write-Offs None.

Rhonda Tuscherer reviewed the sale of midyear REC's (Renewable Energy Credits).

Motion by Kelly Melius seconded by Tom Thorpe and carried to approve 2025 FEM Electric Budget as presented.

Motion by Eric Odenbach seconded by Paula Petersen and carried to sign audit agreement with Eide Bailly for December 31, 2024.

Motion by Eric Odenbach seconded by Kelly Melius and carried to approve board expense reports and attorney fees.

Legal Update: Attorney Vaughn Beck joined the meeting and updated the board on PUC proceedings involving Leola Data Center/MDU and FEM Electric/East River/Basin Electric.

Meeting Report:

East River monthly board report was given by Gary Bachman along with a video report.

Paula Petersen reported on the SDREA board training she attended in Pierre.

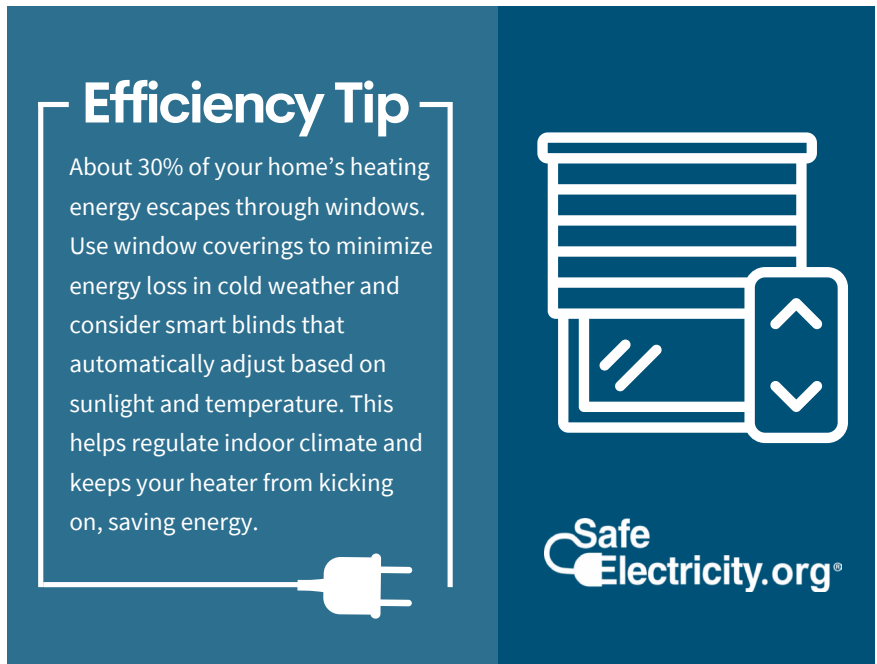
Tom Thorpe and Ryan Holien reported on the legislative supper held November 26, 2024, in Aberdeen.

Tom Thorpe and Gary Bachman reported on the Mid-West meeting held in Denver, CO.

Tom Thorpe reported on SDREA board meeting and strategic planning he attended in Pierre, SD.

Safety meeting minutes from November 22, 2024, were acknowledged.

Adjourn: President Gary Bachman declared the meeting adjourned.



Efficiency Tip

About 30% of your home's heating energy escapes through windows. Use window coverings to minimize energy loss in cold weather and consider smart blinds that automatically adjust based on sunlight and temperature. This helps regulate indoor climate and keeps your heater from kicking on, saving energy.

Safe Electricity.org®



Snowmageddon, Snowpocalypse, SnOMG!

Whether it's a big snow storm or an everyday snowfall – there's a risk of death by shoveling. Sudden exertion after being sedentary for several months can put a big strain on the heart. Pushing a heavy snow blower can also cause injury.

Shoveling heavy, wet snow can cause back injuries and heart attacks. So don't push yourself!

- ❄ Dress warmly, covering your head, fingers and toes.
- ❄ Take it slow and stretch before you begin.
- ❄ Stay hydrated and don't shovel after eating or while smoking.
- ❄ Shovel only fresh, powdery snow; it's lighter.

- ❄ Push small amounts of snow rather than lifting.
- ❄ Take frequent breaks and do not work to the point of exhaustion.

Know the signs of a heart attack, including chest discomfort, an uncomfortable feeling of fullness and shortness of breath. Stop immediately and call 911 if you're experiencing symptoms; every minute counts.

Safe Electricity.org®



HAPPY PRESIDENTS' DAY

FEBRUARY 17

FEM ELECTRIC WILL BE CLOSED FOR THE HOLIDAY



SCHOLARSHIPS NOW

AVAILABLE

- 1 - \$1000 Basin Scholarship
- 2 - \$500 FEM Scholarships

DEADLINE:

February 13th, 2025

APPLICATIONS AVAILABLE AT FEMELECTRIC.COOP



Pulse of Life Kids Center in Vermillion, S.D.

BUILDING COMMUNITIES

REED Fund Helps Support Local Growth

Jacob Boyko

jacob.boyko@sdrea.coop

Small towns and rural communities are the backbone of electric cooperatives, with many co-op members relying on their small towns for shopping, childcare, entertainment and other basic needs and services.

That’s why co-ops are working to help keep – and expand – services and job opportunities in small towns using the co-ops’ Rural Electric Economic Development Fund, or REED.

REED is a non-profit organization launched by the electric cooperatives in 1996 to finance community-focused projects across small towns in South Dakota and Western Minnesota where affordable financing can be harder to secure.

REED has multiple sources of funding, but one of the main sources of funding over the years has been the United States Department of Agriculture. REED has utilized both the Rural Economic Development Loan and Grant Program (REDLG) and the Intermediary Relending Program (IRP), which together have amounted to more than \$30 million.

Through the REDLG program, REED

can fund eligible projects at a 0% interest rate. Through the IRP program, REED applies for low-interest loans and then re-lends the money at a rate slightly higher than the USDA rate – but still less than traditional lending sources. This adds money to the fund and perpetuates it for future projects.

Since the fund’s inception, it’s been used to support more than 400 community-focused projects.

East River Electric Business Development Director Mike Jaspers says it’s in co-ops’ best interests to make rural living just as feasible as living in a larger city.

“It comes back to our principle of commitment to community,” Jaspers explained. “REED ensures our membership has their vital needs met, and they can enjoy the amenities of life in a rural setting when they’d otherwise have to go to a larger city to access some of those services.”

Eric Fosheim, East River Electric’s economic development director in charge of the REED fund, said the \$130 million lent by REED has impacted more than 10,000 jobs and amounted to over \$1 billion of economic impact throughout

South Dakota and Western Minnesota.

“Our \$1 million investments help spur \$10 million projects, which means for every \$1 REED invests into a project, it roughly has a \$9 or \$10 impact,” he explained.

As a supplemental lender, REED won’t finance a project alone; organizations still must secure funding from other sources. However, REED’s low interest rates and community focus can be just what a project needs to catalyze it over the finish line.

As members of the REED fund, co-ops can impact economic development projects while letting REED take on the financial risk.

“The co-ops aren’t on the hook and aren’t guaranteeing the loans here,” Fosheim explained. “REED is doing that.”

Pulse of Life Kids Center – Vermillion, S.D.

Pastors Glenn and Angela Pulse had a vision and a calling. Pulse of Life Foursquare Church, which they hoped to start on Vermillion’s Main Street inside an old medical clinic, had the ability to serve a greater need in the community, where the wait lists for childcare sometimes exceeded three months. They had the faith — they just needed some resources.

The church council worked with First Bank & Trust to secure a loan to create the Pulse of Life Kids Center, but the bank couldn’t lend them the entire amount they needed.

“New daycare centers have a high rate

of failure, so we couldn't qualify for all of the money that we needed through bank loans," Angela explained. "Instead of saying no, the bank manager suggested we go about it in a different way. That's how the conversation about the REED fund came up."

Clay-Union Electric Manager Chris Larson said supporting the Pulses, who are members of the co-op, made sense for Vermillion, where challenges from workforce shortages and the lack of childcare options are prevalent.

"It fills a need in our community," Larson said.

Fosheim agrees.

"Workforce challenges have really been an issue in recent years and one way we try to help with that is by investing in daycares," he said. "Daycares don't always look that good on paper from a financial standpoint, so a lot of these organizations have a hard time getting adequate financing."

With the REED fund's \$245,000 loan, the Pulses' vision finally took shape and the Kids Center opened in 2023. Today, the center offers faith-based daycare with a capacity for 43 of the community's children.

"It's encouraging because it puts more options on the table to make these new things possible," Angela said. "There's no way we could have done this without the REED fund."

Fire Station – Garden City, S.D.

In Garden City, a small community northwest of Watertown, a dilapidated fire hall sat rotting into its own footprint.

"It was just in a state of disrepair," said Scott Campbell, treasurer at the Garden City Fire Department. "The walls were pushing out and we had to put plastic over the doors. It was cramped and old. The truck was parked over a basement area, and being heavy and full of water it caused some concern."

Options were narrowing; Garden City would have to act fast or lose their fire station and rely on surrounding communities during an emergency.

Codington-Clark Electric Director



Nursing home expansion in Philip, S.D.

Russel Foster, who also volunteers for the fire hall, approached his co-op's manager, Dave Eide, in 2022 about using REED to breathe new life into Garden City's fire hall.

Eide agreed and helped with the application process, championing the fire hall as a vital need for Garden City, the co-op and co-op members.

"Everybody needs fire protection," Eide explained.

Through REED, the fire hall secured a \$230,000 loan. The new hall features a community room, which Scott said filled a desperate need.

"We had no place to vote, no place for birthday parties," Campbell said. "Township meetings were in houses at kitchen tables."

For Eide, the REED fund is just another example of what co-ops are supposed to do – serve communities.

"It's an extension of what co-ops are in the first place," he said. "We sell power to members and that's one way we help and serve our communities. The REED fund is just another extension of that."

Elder Care – Philip, S.D.

In rural Philip, limited options for elder care had some long-time locals facing tough decisions.

"Our nursing home for a lot of years was not big enough," said Cindy Pfeifle, business manager at Philip Health Services. "Members of our community were having to leave the area when they needed nursing home care."

After applying for a REED loan in 2022 through West Central Electric and securing funding from other community sources, Philip Health Systems renovated and expanded the nursing home, increasing occupancy from 30 beds to 42 beds.

West Central Electric CEO Jeff Birkeland said access to the REED fund is essential for rural areas without much population growth.

"We need to keep our people from moving away and keep our businesses local," Birkeland said. "The best way to do that is by giving them access to very low-interest financing. Saving hundreds of thousands of dollars in interest costs makes projects much more feasible."

Pfeifle says the community support was essential to initiate the project and applauds REED for helping bring opportunities back to small towns.

"It sends a message of support and cooperation and that they understand how important it is to keep services in rural areas for people who live here," Pfeifle said.

The nursing home project was the first in West Central Electric's territory to use the REED fund, but Birkeland hopes many more projects are to come.

"We are a cooperative, so job number one is to take care of our members and do everything we can to help our communities," Birkeland continued. "If somebody comes to you or you see a need in our communities, we're all in."

UNCLAIMED PROPERTY

IF YOU KNOW ANY OF THESE PAST MEMBERS OR BUSINESSES, PLEASE HAVE THEM CALL FEM ELECTRIC AT 605-426-6891 OR 800-587-5880 AND ASK FOR ANGIE.

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We'll post outage updates, safety tips, news and more to keep our members informed on all the latest from FEM Electric.

GIFT WRAPPING



Rhonda Tuscherer and Angie Sieh are wrapping numerous presents dropped off by locals.

It has become an annual tradition to host a gift wrapping event at FEM Electric. It goes hand in hand with Ipswich's Home Town Holiday, where business throughout town host open houses, giveaways or other events.

FEM welcomes anyone and everyone to drop off presents to be wrapped for the holidays. Every year we see a number of people, and even more presents. Our gift wrap event has become a fun way to give a little back during the busy holiday season.

We hope to see even more people next year, so be on the lookout for the 2025 date in the Cooperative Connections, or on our social media platforms!

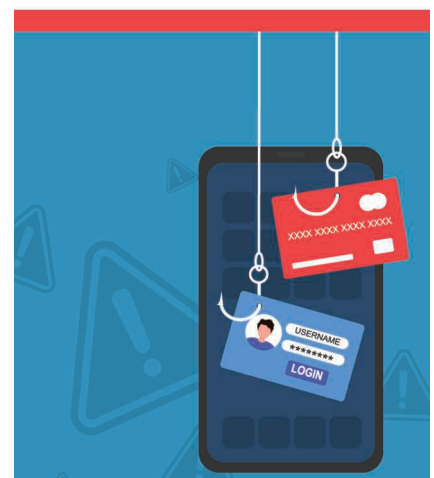


Piles of presents wrapped and waiting to be picked up!

TIPS TO AVOID ENERGY SCAMS

Scammers will try anything to deceive utility customers, including a tactic that claims customers have overpaid their bill. If you receive a call, text or email from someone claiming you overpaid a utility bill and need to provide your banking or credit card information to receive a credit, it's likely a scam. In most cases, your utility will apply a credit to your account to cover future charges or refund an overpayment with a mailed check.

Source: Utilities United Against Scams





The Waxdahl's solar array and hog farm, east of Flandreau. *Submitted Photo*

DISTRIBUTED ENERGY

Understanding the Impact of DERs to the Electrical Grid

Frank Turner

frank.turner@sdrea.coop

Farming has always been a way of life for fourth-generation producers Matt Waxdahl and his brother, Ben. Growing up just outside of Flandreau, the brothers spent their childhood lending a hand on their grandfather's and father's farms.

Over time, Matt and Ben started their own operation. As the market evolved, so did the brothers. In 2009, they expanded into hog farming, building their first barn. Their success led to the addition of two more barns, the most recent constructed in 2022.

According to Matt, raising hogs comes with one major benefit: temperature-controlled barns.

"It's all under one roof, and it doesn't matter if it's 100 degrees outside or -20, it's always T-shirt weather," said Matt.

However, keeping their hogs on a permanent tropical vacation requires a significant amount of energy. During the summers, industrial fans and a stout ventilation system keep the barn cool, while powerful heaters maintain a comfortable environment in the biting South Dakota winters.

Two years ago, the brothers tackled this energy-intensive challenge by installing a 30-kW solar array. With guidance from Sioux Valley Energy, their local electric cooperative, they determined the project would financially benefit their operation due to availability of tax credits and grant funding.

"We saw that the majority of our power usage was always during the day," Matt explained. "We did some number crunching, and it penciled out."

Distributed Energy Resources

The Waxdahl brothers' decision to invest in a solar array reflects how farmers and ranchers across the state are utilizing Distributed Energy Resources (DERs) like solar panels and on-site wind turbines. While some producers use solar panels to power remote water pumps, others invest in larger systems like solar arrays to offset the energy demands of their farms.

According to Ben Pierson, energy services manager at East River Electric, DERs are not common across the state. However, Pierson noted there are situations where DERs make sense: in remote areas where connecting to the electrical grid is too costly, for businesses or individuals looking to leverage tax credits and grant funds, and

for individuals who want to produce their own energy as a personal or environmental choice.

“The most successful applications of DERs that I’ve seen have been for agricultural operations like hog and dairy farms, where the producer has been able to secure both grant funding and tax incentives,” said Pierson. “It makes sense economically because they are using most their energy during the day when solar is producing.”

Even in the best-case scenarios, DERs still face challenges. Without existing tax breaks and grant funds, the energy savings from Waxdahls’ solar array would not have justified the expense. “It wouldn’t be economically efficient at all without the tax credits and grant funding,” Matt said.

The array has also not been as efficient as the Waxdahls had hoped. While the panel installers projected a return on investment within seven to 10 years, the reality after two years of operation suggests it may take closer to 12 to 15 years for the panels to pay for themselves.

Despite the challenges, Matt considers his solar array a successful addition to his hog operation. “If I had another barn the same size, I would make the same decision to add a solar array,” he said.

The Electrical Grid

While DERs offer renewable energy options at the local level, South Dakota’s electrical grid already incorporates significant contributions from renewable energy sources at a wholesale price.

In fact, Basin Electric Power Cooperative, a generation and transmission cooperative serving South Dakota’s electric cooperatives, began purchasing energy from the Wild Springs Solar Project in 2024. Located near New Underwood, the 128-megawatt facility is the largest solar farm in the state. Basin Electric is set to purchase 114 megawatts of the project’s output, marking its first step into utility-scale solar generation.

The benefits of this project are already underway, said Pierson.

“Building a large-scale solar array is much more economically feasible than

a smaller-scale solar array,” said Pierson. “It lets us implement renewable energy into the portfolio in a cost-effective way.”

According to Pierson, power providers are continually working to implement renewable energy where it makes sense while providing reliable energy at an affordable price.

Connecting to the Grid

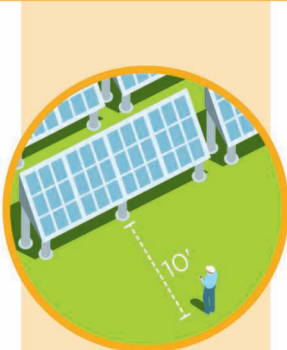
When considering the addition of DERs such as solar panels or an on-site wind turbine, Pierson encouraged members to contact their local electric cooperative to ensure the system is properly sized and safely connected.

When implementing a DER, there are often safety requirements in place to protect both the DER owner and the grid operators.

“Especially if you are talking to a third-party vendor, please reach out to your local utility to discuss the pros and cons – and realities – of implementing DERs,” said Pierson. “Utilities can offer unbiased information regarding the expected output and proper sizing of a DER.”

SAFETY NEAR SOLAR

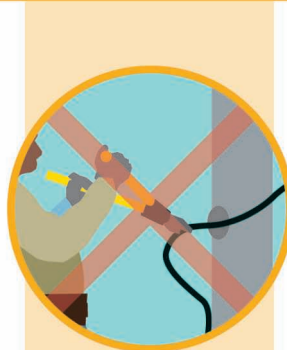
Like any other source of electricity, solar panels can pose potential hazards. Keep these safety tips in mind when you’re near solar panels.



Stay at least 10 feet away from the installation.



Never walk on solar panels.



Never cut any wiring to the solar panels.



Never touch broken or damaged solar panels.



UNDERSTANDING FACTORS THAT IMPACT YOUR ENERGY BILLS

Abby Berry
NRECA

February brings some of the coldest weather of the year, and as our home heating systems work harder and longer to keep us warm, we typically see higher energy bills.

There are a few key factors that affect electricity prices, as well as a few ways you can make a meaningful impact on home energy savings.

When you receive your monthly bill from FEM Electric, you're provided with a summary of how much electricity you used during the billing cycle. You can even see how electricity use may have spiked on days when you used more electricity, such as a particularly chilly day or when relatives were staying with you.

But you might be surprised to learn that beyond your monthly energy consumption, there are external factors that can impact the cost of electricity.

FUEL PRICES

FEM Electric purchases electricity from our power generation partners Basin Electric Power Cooperative and East River Electric Power Cooperative, at a wholesale cost, then we deliver that power to our local communities. The cost of generating and transmitting electricity from our generation partner accounts for a significant portion of the cost to provide electric service to local homes and businesses—and the cost of fuels that are used to generate that electricity, such as natural gas and coal, fluctuate based on supply and demand. While these fluctuations can impact the cost of electricity, we work closely with Basin and East River to plan ahead and help stabilize electricity prices for our members.

EXTREME WEATHER

While we can't control the weather, we can review weather patterns and forecasts to prepare for times of extreme cold or heat, when we know the demand for electricity will increase. But when temperatures become extremely cold and the demand for electricity spikes, the price of electricity can also increase.

INFRASTRUCTURE AND EQUIPMENT

To cover the costs associated with providing electricity to your home or business, FEM members pay a monthly availability charge. This flat monthly fee ensures the cost of equipment, materials, labor and daily operations are covered for all members in FEM's service territory. To ensure the reliable service you expect and deserve, we must maintain the local grid, including power lines, substations and other essential equipment.

ENERGY POLICY AND REGULATIONS

Federal energy policies and regulations can have a profound impact on electricity costs. As energy generation shifts to the use of more renewable sources and stricter regulations for traditional, always-available fuel sources, such as natural gas and coal plants, costly upgrades and technologies must be constructed and deployed. These additional costs are ultimately passed to consumers.

U.S. power consumption is expected to double by 2050. Across the country, electric cooperatives are working with members of Congress to advocate for smart energy policies that reliably power our local communities.

YOU HAVE CONTROL

While many of these external factors that impact electricity costs are out of our control, we all have the power to manage our energy use at home. The most effective way to lower use is thermostat management. Since heating and cooling account for a major portion of home energy use, adjusting the thermostat to the lowest comfortable setting can help you save energy and money. Remember to service your heating and cooling system annually and replace dirty filters as needed.

You can also reduce energy use by taking advantage of off-peak periods, when the demand for electricity is lower. Reserve energy-intensive chores for off-peak times, such as early in the morning or later in the

evening, to save energy. Be sure to seal air leaks around windows, doors and other areas where gaps are possible. This will help your heating and cooling system work less and improve the overall comfort of your home.

FEM Electric is your local energy partner, and we're here to help. Visit <https://www.femelectric.coop/energy-efficiency-tips> for more tips designed to help you save. As always, we will continue working diligently to provide you with reliable power at an affordable cost.

Abby Berry writes on consumer and cooperative affairs for the National Rural Electric Cooperative Association, the national trade association representing nearly 900 local electric cooperatives. From growing suburbs to remote farming communities, electric co-ops serve as engines of economic development for 42 million Americans across 56% of the nation's landscape.

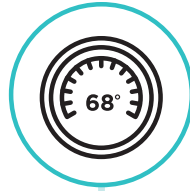
ENERGY EFFICIENCY TIP OF THE MONTH

If you have a home office, look for opportunities to save energy in your workspace. Use ENERGY STAR®-rated equipment, which consumes up to 50% less energy than standard models. Set equipment like printers and scanners to automatically switch to sleep or energy-saver mode when not in use. In addition to saving energy, the equipment will stay cooler, which will help extend its life. Another way to save energy in your home office is to use efficient lamps for task lighting. Replace any older bulbs with energy-saving LEDs.

Source: [energy.gov](https://www.energy.gov)

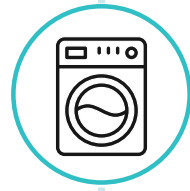
EFFECTIVE WAYS To Lower Home Energy Use

Outside factors, such as fuel and equipment costs and extreme weather, can impact electricity prices. But you have the power to control home energy consumption by taking proactive steps to reduce energy use.



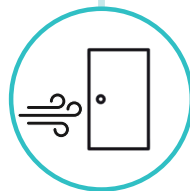
Thermostat Management

The thermostat is one of the best places to lower your energy use because heating and cooling account for a significant portion of home energy consumption. During winter months, adjust your thermostat to the lowest comfortable setting to reduce energy use. The Dept. of Energy recommends 68 degrees or lower.



Utilize Off-Peak Energy Times

Plan energy-intensive chores and tasks, such as running the dishwasher or washing clothing, during off-peak energy hours, when the demand for electricity is lower. Off-peak times are early in the morning or late evenings. By scheduling these activities during off-peak periods, you can help keep rates lower, reduce demand and relieve pressure on the grid.



Seal Your Home

According to ENERGY STAR®, about 20% of heated or cooled air that moves through a home is lost due to lack of proper insulation and air leaks. Ensure your home has sufficient insulation levels and seal air leaks around windows and doors with caulk and weatherstripping. This is a simple, effective way to lower energy use and improve indoor comfort.



Maintain Equipment

The health of your heating and cooling system is essential for comfort and can greatly impact energy bills. Maintain your system by regularly replacing dirty filters and scheduling annual inspections for maintenance and necessary repairs.

REGISTER TO WIN!

Bring this coupon and mailing label to the Touchstone Energy® Cooperatives booth at Black Hills Stock Show & Rodeo to win a Blackstone electric grill!

Your Phone Number: _____

Your E-mail Address: _____



To have your event listed on this page, send complete information, including date, event, place and contact to your local electric cooperative. Include your name, address and daytime telephone number. Information must be submitted at least eight weeks prior to your event. Please call ahead to confirm date, time and location of event.

FEB. 1
James River Gobblers Wild Turkey Banquet
5 p.m.
Highland Conference Center
Mitchell, SD
605-999-3208

FEB. 2
Hot Dish Competition Lake County Museum Fundraiser
11 a.m.-1 p.m.
St. Thomas School Gym
Madison, SD
605-256-5308

FEB. 8
Polar Bear Chili Cook-Off
11 a.m.-2 p.m.
Main Street
Hill City, SD

FEB. 8
Dad & Daughter Dance
6-8 p.m.
Joy Ranch
Florence, SD
www.joyranchofsd.com

FEB. 8
ALL Ability Skate Day
Disability Awareness & Accessibility Committee
1-3 p.m.
Main Street Square
Rapid City, SD
605-390-4434

FEB. 14-17
11th Annual Frost Fest
9 a.m.-3 p.m.
Brookings, SD
605-692-7444

FEB. 15
Sioux Empire On Tap
Sioux Falls Convention Center
Tickets available online
www.siouxempireontap.com

FEB. 22
Knights of Columbus Ice Fishing Derby
Waubay Lake
Registration 9-10 a.m.
605-881-5075

FEB. 22
Bellator Titans Charter Casino Night Fundraiser
6-11 p.m.
316 2nd St.
Aberdeen, SD

FEB. 28-MARCH 1
Mardi Gras Weekend
8 p.m. Fri.-10 p.m. Sat.
Main Street
Deadwood, SD
605-578-1876

MARCH 8-9
Philip Area Annual Gun Show
Sat. 9 a.m.-5 p.m.
Sun. 9 a.m.-3 p.m.
American Legion Hall
Philip, SD
605-859-2135

MARCH 14-15
Badlands Quilter Weekend Getaway
Fri. 5 p.m.
Sat. 8 a.m.
Community Center
Wall, SD
605-685-5718

APRIL 4-5
Annual Schmeckfest
German Heritage Celebration
748 S Main St
Freeman, SD
605-925-4237

APRIL 11-12
Junkin' Market Days Spring Market
Fri. 4-7 p.m.
Sat. 9 a.m.-4 p.m.
\$5 Admission
W.H. Lyon Fairgrounds
Sioux Falls, SD
www.junkinmarketdays.com

Note: Please make sure to call ahead to verify the event is still being held.