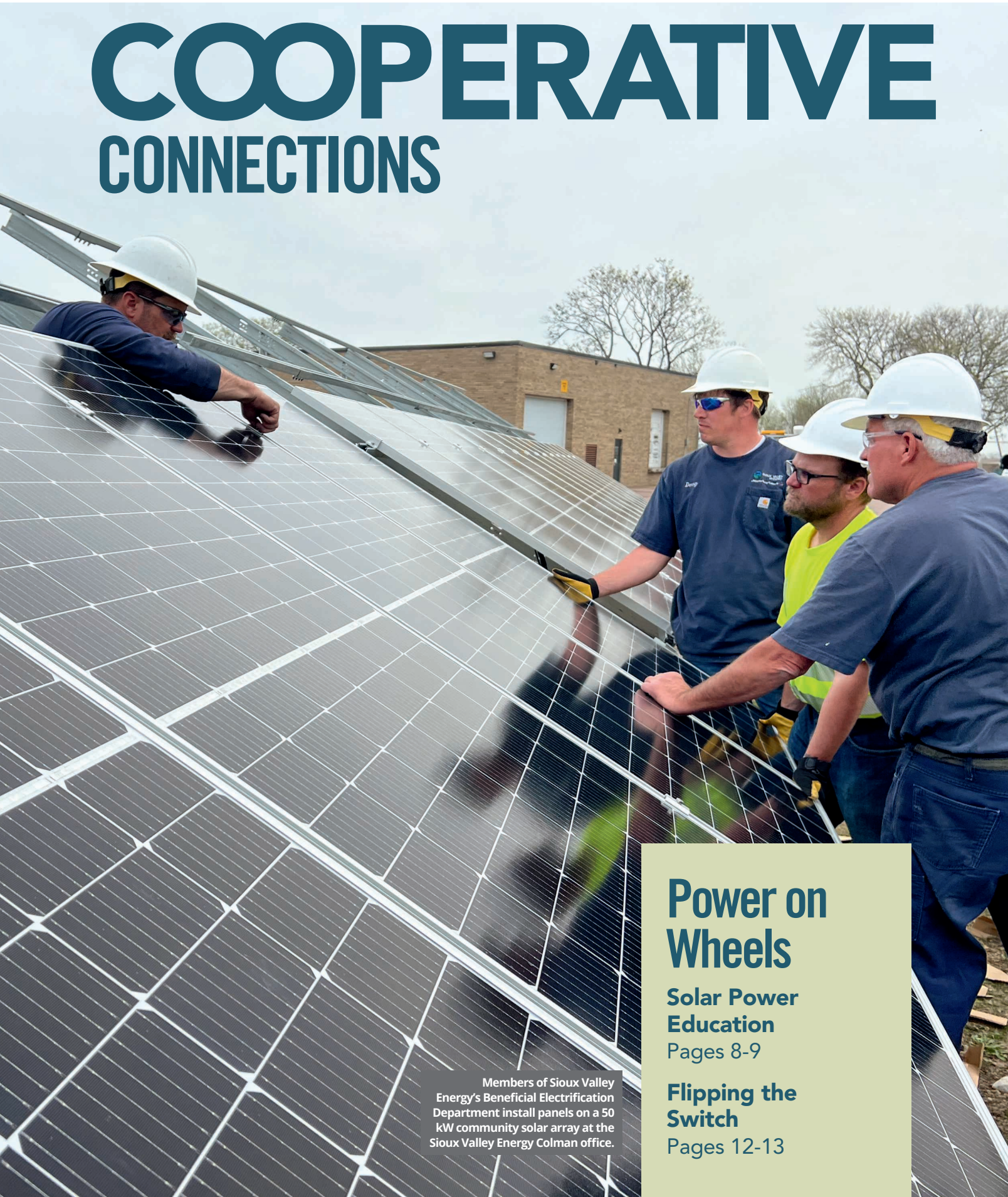
A Touchstone Energy® Cooperative

CODINGTON-CLARK ELECTRIC
JULY 2023 VOL. 24 NO. 3

COOPERATIVE CONNECTIONS



Members of Sioux Valley Energy's Beneficial Electrification Department install panels on a 50 kW community solar array at the Sioux Valley Energy Colman office.

Power on Wheels

Register For Free Bus Tour

REGISTER FOR FREE BUS TOUR

Plans are coming together for Codington-Clark Electric's tour to Basin Electric in North Dakota. Dates for the tour are August 28 & 29. Codington-Clark Electric is co-sponsoring the trip with H-D Electric.

Traveling by motorcoach, Codington-Clark and H-D members will spend the evening on a dinner cruise aboard the Lewis & Clark Riverboat and stay in Bismarck for the night. The following morning the group will depart for Beulah with stops at the following:

GREAT PLAINS SYNFUELS PLANT

Learn how coal can be refined into natural gas and a variety of other products. The visitor center tour includes a model room tour where a guide walks participants through each step in the coal gasification process and describes the various products that result.

ANTELOPE VALLEY STATION

The tour includes an overview in the model room as well as a guided walking tour of the power plant. The walking tour includes stops at the turbine deck, control room, boiler and observation deck on the 17th floor.

THE COTEAU PROPERTIES COMPANY FREEDOM MINE

Learn how lignite coal is produced at a surface mine and how the land is returned to its original state. A guided drive-through tour will bring you to active mining areas where you can see giant earthmoving equipment in action.

RIVERBOAT

The Lewis & Clark Riverboat, located at the historic Port of Bismarck, continues the proud tradition of the great river steamers that have traveled the mighty Missouri River from St. Louis to the trading posts of the great northwest since the 1830's. Travel the river of Lewis & Clark, Sakakawea, Custer and Sitting Bull in elegance and comfort on the last 150-passenger vessel.

As in the past, this expense-paid trip is intended to give the co-op's members a better understanding of the electric utility business and the company they own.

We call it the Basin tour because our power supply partner Basin Electric Power Cooperative owns, operates or is in some way connected to most of the places we visit.

The Fifth Cooperative Principle addresses education, training and information. Cooperatives provide education and training for their members, directors, managers, and employees so all can contribute effectively to the development of the cooperative business. With the knowledge gained, members, directors, managers, and employees can inform the general public – particularly young people and opinion leaders – about the nature and benefits of cooperatives.

The bus is filled on a first-come, first-served basis with Codington-Clark Electric and H-D members; except, preference is given to persons who have never participated in a previous Basin Tour. If the bus is full by the time you apply, your name will go on a standby list. The standby list is used to fill seats in case of cancellations.

Basin Electric operates some of the cleanest burning coal plants in the world and is a leader in strip mine reclamation.

Please be aware that these tours include walking short distances and climbing stairs.

Don't hesitate if you are interested. Apply today!

Basin Tour '23 Registration Form

Depart Aug. 28, Return Aug. 29

Co-op member selection is first-come, first-served with preference given to first-time participants.

Member's Name:_____

(If registering as a couple/double, include both your names)

Address:_____

Phone:_____ **Prior Participant:** ____Yes ___No

Codington-Clark Electric, PO Box 880, Watertown, SD 57201

Return form by July 10, 2023

COOPERATIVE
CONNECTIONS
CODINGTON-CLARK ELECTRIC

(USPS 019-073)

To report a power outage:
1-844-968-1976
Office Hours:
Mon. - Fri., 8 a.m. to 4:30 p.m.

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www.ccelectric.coop

System Upgrades

Dave Eide
General Manager
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Summer Work

This summer we'll be completing the last year of our four-year construction work plan. We usually use the last year of our work plan as a cleanup year. We plan on replacing about 13 miles of overhead line with underground line. We also plan to replace about 16 miles of older bare concentric neutral underground cable with new jacketed cable that has what I call a rubber insulation. It isn't exactly a rubber insulation but a man-made polymer that looks and feels like rubber. Insulation is key when it comes to underground cable, the better the quality of the insulation the longer the life of the cable. We have never had a cable failure or outage with the "rubber" insulation, with the exception of accidental dig ins.

Two contractors will be assisting our crews with this work. We also hope to spend some time doing underground maintenance, that is straightening underground junction boxes and transformers, cleaning out dirt in the boxes due to rodents and properly marking the circuits inside the boxes.

East River Transmission Rebuilds

Our power supplier East River Electric will be rebuilding a major portion of the 69KV transmission lines that bring power to our distribution system. There will be four transmission rebuild projects completed this summer. The first is a 9.56 mile rebuild from the Watertown WAPA Substation just east of Watertown going north to the Waverly Substation. The second is a 9.9 mile rebuild from the Waverly Substation going north to the Rauville Substation. The third is a 21.35 mile rebuild from the east side of Lake Pelican, going south and west to the Henry Substation. The fourth is a 16 mile rebuild going west from the Henry Substation to the Clark Substation.

In total this adds up to about 57 miles of transmission rebuild right in our service territory. Codington-Clark Electric is a major beneficiary of this rebuild. We are required to track and report our outage times to the Rural Utilities Service. We track all outages based on the cause. About half of our outages are power supply related. This transmission line rebuild should help reduce outage times. I'd like to thank all of our members for working with East River on the easements and right of way issues to get this accomplished. It helps you and your neighbors by helping us to keep the lights on. Thank you!

Fireworks Safety Tips

Summer is synonymous with barbecues, parades and fireworks. The National Safety Council advises everyone to enjoy fireworks at public displays conducted by professionals, and not to use any fireworks at home. They may be legal but they are not safe.

In 2017, eight people died and over 12,000 were injured badly enough to require medical treatment after fireworks-related incidents. Of these, 50% of the injuries were to children and young adults under age 20. Over two-thirds (67%) of injuries took place from June 16 to July 16. And while the majority of these incidents were due to amateurs attempting to use professional-grade, homemade or other illegal fireworks or explosives, an estimated 1,200 injuries were from less powerful devices like small firecrackers and sparklers.

Additionally, fireworks start an average of 18,500 fires each year, including 1,300 structure fires, 300 vehicle fires and nearly 17,000 other fires.

Fireworks Safety Tips: If You Choose to Use Legal Fireworks

If consumer fireworks are legal to buy where you live and you choose to use them, be sure to follow the following safety tips:

- Never allow young children to handle fireworks
- Older children should use them only under close adult supervision
- Never use fireworks while impaired by drugs or alcohol
- Anyone using fireworks or standing nearby should wear protective eyewear
- Never hold lighted fireworks in your hands
- Never light them indoors
- Only use them away from people, houses and flammable material
- Never point or throw fireworks at another person
- Only light one device at a time and maintain a safe distance after lighting
- Never ignite devices in a container
- Do not try to re-light or handle malfunctioning fireworks
- Soak both spent and unused fireworks in water for a few hours before discarding
- Keep a bucket of water nearby to fully extinguish fireworks that don't go off or in case of fire
- Never use illegal fireworks

Sparklers Are Dangerous

Every year, young children can be found along parade routes and at festivals with sparklers in hand, but sparklers are a lot more dangerous than most people think.

Sparklers burn at about 2,000 degrees – hot enough to melt some metals. Sparklers can quickly ignite clothing, and children have received severe burns from dropping sparklers on their feet. According to the National Fire Protection Association, sparklers alone account for more than 25% of emergency room visits for fireworks injuries. For children under five years of age, sparklers accounted for nearly half of the total estimated injuries. Consider using safer alternatives, such as glow sticks, confetti poppers or colored streamers.

Call Before You Dig!

Dixie Koistinen

Dixie Koistinen advises diggers to call 811 before digging. This is a great tip for anyone doing constuction or yard work this summer. Dixie is the daughter of Jerome and Lisa Koistinen from Lake Norden, S.D., members of H-D 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.

Summer DESSERTS

VICKY'S RHUBARB CAKE

Ingredients:

1 egg
1 cup sugar
1 cup cream (sweet or sour)
1 1/2 cups flour
1 tsp. soda
1/4 tsp. cinnamon
2 cups rhubarb (slice thin)

METHOD

Mix in order. Grease and flour pan. Pour batter into pan and sprinkle 1 cup brown sugar, 1/2 cup nuts, and 1/2 cup chocolate chips over the top. Bake at 350°F for 50 minutes.

Vicky Hoffman
South Dakota

CHERRY CLOUD 9 DESSERT

Ingredients:

1 white cake mix
1 (3 oz.) pkg. cherry jello
1 (8 oz.) carton of Cool Whip
1 (24 oz.) can cherry pie filling

METHOD

Bake 1 white cake mix in 9x13" pan according to directions.
Poke holes in cake and pour in 1 (3 oz.) pkg. cherry jello made with only 1 ½ cups water. Refrigerate.

When this is cool, cover with 1 (8 oz.) carton of Cool Whip. Gently spoon on 1 (24 oz.) can of cherry pie filling. Refrigerate and serve.

This is a pretty red and white dessert to serve during holiday gatherings.

Jane Ham
Rapid City, S.D.

EASY RASPBERRY MOLTEN CAKES

Ingredients:

4 oz. semi-sweet chocolate
1/2 cup (1 stick) butter
4 tsps. raspberry extract
1 cup confectioners' sugar
2 eggs
1 egg yolk
6 tbsp. flour
Raspberry Sauce (recipe follows)

Raspberry Sauce:

1 package (10 ounces) frozen raspberries in juice, thawed
1/2 teaspoon raspberry extract

METHOD

Preheat oven to 425°F. Butter 6 (6 oz.) custard cups or soufflé dishes. Place on baking sheet.

Microwave chocolate and butter in large microwavable bowl on HIGH 1 minute or until butter is melted. Stir with wire whisk until chocolate is completely melted. Stir in raspberry flavor and vanilla. Stir in sugar until well blended. Whisk in eggs and yolk. Stir in flour. Pour batter into prepared custard cups.

Bake 10 to 14 minutes or until sides are firm but centers are soft. Let stand 1 minute. Carefully loosen edges with small knife. Invert cakes onto serving plates.

For the Raspberry Sauce, mix raspberries and raspberry extract until well blended. Serve with cakes.

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 2023. All entries must include your name, mailing address, phone number and cooperative name.

Seal in Savings with Efficient Exterior Doors

Miranda Boutelle
Efficiency Services Group

Q: I like the style of my front door, but it is drafty. Can you recommend ways to fix the drafts and make it more energy efficient?

A: The front door of your home has a lot of meaning. It sets the stage for the home and is the first impression for your guests. Beyond curb appeal, the front door is a good place to look for energy savings.

Efficient exterior doors seal tightly and don't allow air to pass through. Limiting airflow from exterior doors can result in lower heating and cooling costs. Throughout the years, the construction of exterior doors has improved to increase their efficiency. If your door is older, it likely is not insulated.

There are two strategies to address an inefficient front door: Purchase a new one or work with what you have.

If you want to replace your front door for aesthetic purposes, make it more functional or improve its efficiency, consider upgrading to an ENERGY STAR®-certified model. The ENERGY STAR® certification ensures the door you buy meets efficiency criteria for your local area. It also means the National Fenestration Rating Council independently tested and verified the door.

Certification requires any windows in the door to be double or triple pane to reduce heat flow, which results in a more efficient home. While windows in doors offer aesthetics, more glass means less efficiency. ENERGY STAR® offers different criteria based on the amount of glass the door has. That means that the bigger the windows in a door, the lower the efficiency. The most efficient doors have no glass or windows in them.

U-factor is the primary rating for efficiency on doors and windows. U-factor is the inverse of R-value, which is the rating used for insulation. Unlike R-value where higher is better, the lower the U-factor, the more energy efficient the door. Check the U-factor on ENERGY STAR® doors at your local hardware store or online to help choose the most efficient door in your preferred style.

ENERGY STAR®-certified doors are made of the most efficient materials, such as fiberglass, wood cladding and steel with polyurethane foam core. They are built to fit snugly into their frames, reducing drafts and airflow.

When it comes to doors, you don't have to sacrifice style for efficiency. There are many styles available to match the architecture, whether your home is historic or modern.

When completely replacing a door and the frame, you can use expanding foam or caulk to fill the space between the door jamb and structural framing. ENERGY STAR® doors have specific installation instructions to ensure the desired efficiency.

If a new door isn't in your budget, there are less expensive options to reduce air leakage and improve your home's efficiency.

All of that coming and going throughout the years can wear out weatherstripping. If you can see daylight around the edges of the door or underneath it, it's time to stop those air leaks.

Weatherstripping around the door jamb can be adjusted to make a snug seal or replaced if it's too far gone. Apply one continuous strip along each side, and make sure it meets tightly at the corners.

There are many different types of weatherstripping products on the market, so shop around for what's right for you. Don't forget the door sweep at the bottom of the door.

Adding a storm door can also help and is less expensive than replacing the entire door. Most storm doors have options for using a screen or glass. Swapping the screen for the glass insert can help save energy in both the winter and in the summer if you use air conditioning. Consider a storm door that's easy to switch between glass and screen so you can maximize the benefits.

Open the door to energy savings by improving the efficiency of your exterior doors – without compromising the aesthetics of your home.

Home Health Care

Dr. Saini Provides Home Health Care for Patients

Scott Waltman

Dr. Mona Saini

For Dr. Mona Saini, providing care to patients in their homes is incredibly satisfying.

Saini lives in Custer and works for Monument Health. She started with what's since become Monument during her residency in Rapid City about eight years ago and has been in Custer for the past five years.

She started home visits early during the COVID-19 pandemic and has kept providing the service since, she said.

Taking care of patients in their homes is convenient for those folks and a privilege for Saini. She said it feels more personal for her and helps alleviate anxiety for people who have a hard time getting to the hospital or clinic.

The disappointing part of modern medicine is that not much home health care is provided, Saini said.

The home visits are part of her work for Monument, but not the only part. She's a general practitioner and also provides prenatal care. She and the other five physicians in Custer all do outpatient clinic, hospital and emergency room work. Not all, though, provide home health care.

Saini earned her undergraduate degree from Oakland University on the north side of Detroit and went to medical school at the Indiana School of Medicine-Fort Wayne.

"The disappointing part of modern medicine is that not much home health care is provided."

She said she had an interest in rural health care while she was still in school, which is what led her to apply for a residency in Rapid City.

Saini's parents grew up in India, but she's found a wonderful home in Custer.

Her parents are the children of farmers, and she appreciates the rural values of hard work, being humble and appreciative and family values.

"I lived in Michigan almost all my life, and I didn't even know all this was out here," Saini said of the Black Hills area.

She appreciates the community and the opportunity to help people without them having to leave the comfort of their homes.

"I love taking care of my rural health patients," Saini said. "I truly do"

POWER ON WHEELS

West Central Electric Cooperative's solar trailer serves as an interactive exhibit showcasing solar power generation in action for members. Equipped with a built-in generator, battery storage unit, inverter, and six rooftop solar arrays, the trailer is a great resource for public outreach and education efforts in South Dakota.

Solar trailer takes renewable education on the road

Frank Turner
frank.turner@sdrea.coop

Solar panels are creating a buzz in the energy industry. Every day, co-op employees around the state answer an ever-growing list of questions, such as "Can solar save me money on my energy bill?" and "Are solar panels a reliable source of energy?"

Addressing increasing public interest, West Central Electric Co-op, serving towns such as Murdo and Kennebec, has developed an innovative approach to public outreach regarding solar panels. Their solution: a solar trailer — a portable structure designed to inform the public about the efficiency, pros and cons of solar panels.

"West Central Electric has approximately 3,700 members and I get two or three calls a month from our members asking about solar power," said Jessie Tucker, the co-op's member services manager.

Tucker noted that the recent surge in solar power interest isn't limited to West Central. Co-ops throughout the state have been fielding similar inquiries. So, when the concept of a solar trailer was introduced in 2021, several nearby co-ops, including Rushmore Electric Power, were quick to get on board.

"We thought, wouldn't it be great if we had something that we could show to the membership and explain how solar panels work and go from there," said Tucker. "We envisioned the trailer as a resource that could be utilized throughout western South Dakota, if not the entire state."

With support from surrounding co-ops, the trailer was completed in June 2022. Although the trailer is a work in progress, it has already been showcased at several co-op outreach events over the past year, including Black Hills Electric's Co-op Day and more.

The solar trailer serves as an interactive exhibit where members can step inside for a first-hand experience. Upon pressing a button, the six rooftop solar arrays activate and start generating a total of 1.92 kilowatts of energy directly from the trailer's roof. Apart from solar panels, the trailer is equipped with a built-in generator, a battery storage unit, and an inverter that converts power from direct current (DC) to alternating current (AC).

The trailer, according to Tucker, highlights the benefits of a diversified approach to South Dakota's energy mix. For a reliable and dependable energy grid, renewable sources such as solar need to be paired with other forms of power generation.

"What we are really trying to com-

municate is that you can't fully rely on distributed generation, whether it's solar or wind," Tucker explained. "For reliability and safety, it's important to consider all available energy sources. Solar power has its limitations, especially when the sun isn't shining or during the night."

The introduction of a solar trailer comes as co-ops across the state are in the midst of their own solar initiatives. Just last month, Sioux Valley Energy completed its own solar project that permits its members to purchase a 20-year subscription to the power output from a newly constructed 140-panel solar array located in Colman, S.D. The project allows members who are passionate about renewable energy a direct route to purchase solar power through their local co-op.

"A lot of people are very interested in solar power, but they don't want to go through the process of using up land and roof space," said Ben Pierson, manager of beneficial electrification for Sioux Valley. "Members aren't interested in constructing these projects themselves, so our solar project offers those members an alternative way to get involved in solar."

More than 30 members participate in the subscription program, and because the project was entirely financed by the participating members, it won't impact other members of the co-op.

The solar trailer has been featured at several co-op public outreach events.

"This project was one hundred percent funded by the members that are purchasing the output of those panels," said Pierson. "This project allows these members to see a local, physical solar asset in their community that is working for them and is credited on their bill each. So really our focus with renewable is really about member choice."

The landscape of renewable energy is vast and ever-changing and every co-op is planning their own approach, but with resources like the solar trailer, tools for education and engagement are within reach for members wanting to learn more.

The interior of the solar trailer is equipped with battery storage and outlets – powering everyday electrical appliances, such as a hairdryer.

Avoid Hazards with Grain Bins and Power Lines

Electrical power is an indispensable part of modern agricultural operations. In fact, electricity is such a commonplace part of a farm operation that it can all too easily become a part of the scenery and its hazards overlooked. One often overlooked safety consideration is the power line clearance required for grain bins.

Electrical hazards include large equipment and farm structures near overhead power lines. The best way to avoid problems is to keep equipment and new constructions a safe distance from power lines.

Equipment and vehicles, such as augers and grain trucks, around grain bins are particularly at risk of coming into contact with overhead power lines. It is important that bins be built a safe distance from power lines to help ensure the safety of all farm workers.

The National Electrical Safety Code sets the minimum distance that power lines must be above and around grain bins. If planning on constructing a new grain bin, contact the Cooperative before any construction begins. We can help you determine minimum safety requirements.

Keep these additional safety tips in mind anytime you are operating large farm equipment around power lines:

- Keep equipment at least 10 feet from lines—at all times, in all directions.
- Inspect the height of the farm equipment to determine clearance.
- Always remember to lower extensions when moving loads.
- Use a spotter when operating large machinery near lines.
- Never attempt to move a power line out of the way or raise it for clearance.
- If a power line is sagging or low, contact your local utility.

If equipment does come into contact with a power line, remember, stay on the equipment until the Cooperative has arrived to de-energize the lines. Warn others to stay away, and call the Cooperative immediately. The only reason to exit is if the equipment is on fire. If this is the case, jump off the equipment with your feet together and without touching the ground and vehicle at the same time. Then, still keeping your feet together, "bunny hop" away to safety.

For more electrical safety information, contact Codington-Clark Electric.

Schaefer joins CCEC

Codington-Clark Electric is pleased to welcome Brayden Schaefer as a temporary lineworker.

Brayden graduated from Brookings High School and earned his Power Line Construction & Maintenance diploma from Mitchell Technical College in May.

Brayden will gain some valuable experience while helping our crews this summer and at the same time help carry our workload.

Brayden Schaefer

Taxes paid by your cooperative support local schools

During June, Codington-Clark Electric wrote nine checks totaling $458,177.47 for kWh taxes. The tax amount was based on the sale of electricity (kWh) during calendar year 2022.

The tax money was paid to the county treasurer, who in turn forwards the money to each school district operating in the county. Each school's share was based on the amount of electricity sold within the school district's boundaries.

Rural electric co-ops, including Codington-Clark Electric and the power suppliers East River Electric and Basin Electric, each paid the kWh tax. Because of the way in which the cooperative power supply network is structured, Basin Electric Power Cooperative (the producer) paid the tax on electricity sold to East River Electric Power Cooperative (the wholesaler). East River paid the tax on electricity sold to Codington-Clark (the retailer) who in turn paid the tax on electricity sold to members.

The following chart shows the amounts received by the various school districts in Codington-Clark Electric's service territory. The amount is the combined total paid by the three co-ops.

School District	Amount
Castlewood 28-1	673.50
Clark 12-2	136,969.36
Deuel 19-4	282.69
DeSmet 38-2	130.50
Doland 56-2	672.28
Florence 14-1	24,994.66
Groton 06-6	170.56
Hamlin 28-3	3,946.05
Henry 14-2	13,129.42
Summit 54-6	33,812.39
Watertown 14-4	135,829.28
Waubay 18-3	7,086.07
Waverly 14-5	37,657.67
Webster 18-4	7,043.74
Willow Lake 12-3	55,779.30
TOTAL	$458,177.74

Scholars honored at annual banquet

Touchstone Energy® Cooperatives in eastern South Dakota and western Minnesota honored some of the area's most impressive high school seniors Saturday, April 29, during the 21st annual Touchstone Energy Scholar of the Year banquet and recognition on the campus of Mitchell Technical College.

The event honored the 32 high school students who were chosen each week throughout the school year as the Touchstone Energy Scholar of the Week. It's a program which recognizes students for academic achievement, co-curricular involvement, and community service. The students are featured in weekly segments which air on Dakota News Now television and each student receives a $250 scholarship for being chosen as the Scholar of the Week.

Sydney Boersma, a senior at Elkton High School within Sioux Valley Energy's service territory, was selected during the banquet as the Touchstone Energy Scholar of the year and received a $1,000 award. Juliann Seeley, a senior at Beresford High School, and Alison Nankivel, a senior at Parker High School, both within Southeastern Electric's territory, were chosen to receive $500 awards.

The keynote speaker was U.S. Representative Dusty Johnson. Dakota News Now news anchor Alexandra Todd served as the master of ceremonies.

Touchstone Energy is a network of over 720 electric cooperatives from around the country – including the electric cooperatives in our region – who are united in the four touchstone values of integrity, accountability, innovation, and commitment to community. Touchstone Energy Cooperatives are local, active members of their communities, dedicated to building our communities, and improving our way of life. The cooperatives have sponsored the Scholar of the Week program since 2002. In that time Touchstone Energy Cooperatives have awarded over $100,000 in scholarships to over 600 students as part of the Scholar of the Week program.

Codington-Clark Electric Scholar of the Week $250 scholarship winners were Trey Huber, Clark High School and Jedi Buting, Waverly-South Shore High School (middle row, far right).

FLIPPING THE SWITCH

Third generation ranchers Ken and Kathleen Meier stand by one of the first electric utility pole installed on their ranch.

The Meier Family and Illuminating Rural South Dakota

Frank Turner
frank.turner@sdrea.coop

In the rural heartland of Firesteel, S.D., a transformational moment still echoes in the minds of third-generation ranchers Ken and Kathleen Meier. Over a span of 56 years on their farmstead, they have run cattle, reared horses, and even raised two children. After all of those years, however, they still vividly remember the moment when electricity illuminated their rural community for the first time in the early 50s.

It's safe to say, their memories go back a long way. And yet, their bond with their home extends even further, reaching back a century to when their families were still establishing roots in the frontier of the rural prairie.

Ken recalls the unlikely story which brought his grandpa, Anton Meier, from Iowa to the captivating, rolling landscape near Timber Lake, S.D., in 1923.

"Well, my grandpa was ornery when he had a bit too much to drink," said Ken. "Anyway, after a night of drinking, they threw him out of a bar in Iowa, so he crawled into a train car for a nap. When he woke up, he was in South Dakota."

According to Meier, his grandpa Anton quickly fell in love with the state and decided to relocate his

family to a new frontier near Timber Lake. In a coincidental twist of fate, Kathleen's family also settled in the same area around the same time. Unlike Anton's serendipitous journey, Kathleen's grandfather, Frank Holzer, had a more traditional approach.

"My grandpa didn't get a free ride," laughed Kathleen. "He came down with our family from North Dakota with a horse and a milk cow tied to the back of the family's covered wagon."

One of the original utility poles on Ken and Kathleen Meier's land was created in 1950, yet it still functions to this day.

When their families first settled the area, it was the era of kerosene lamps, horses and hard work. Yet in their childhood, both Ken and Kathleen witnessed the transition from kerosene lamps to electric light bulbs, a change that would propel their families and their communities forward.

"I must have been 9 or 10, but I remember when Moreau-Grand put our line up," Ken reminisced. "The memory of those first poles being driven into the ground by a couple of guys with an old International Truck has stuck with me. It was just something you don't forget."

Today, those original poles placed in the ground more than 70 years ago still stand tall on their ranch. Kathleen, too, recalls the transformative impact they had.

"I was about the same age when we first wired our house," said Kathleen. "I remember how fun it was to just turn the lights on and have bright lights."

However, the electrification of their neighborhood brought more than just the novelty of flipping a switch. Kathleen's family promptly modernized their home. Their stove and fridge transitioned from kerosene to electric, and they even invested in a milking a machine. The arrival of electricity didn't just bring about change; it revolutionized daily life on the ranch, making it cleaner and more efficient.

"Our old washing machine ran on a gas engine," said Kathleen. "You had to stomp on a pedal to get that motor started. It smoked up the entire house. Once we had electricity all we had to do was plug it in."

Progress didn't stop at the washing machine. "It didn't take long for things to change," added Ken. "I remember when I was about thirteen, my neighbor purchased the first television in the neighborhood, so everything happened fast. We would all go to watch whatever was on."

The transition has continued to benefit the Meier family. Today, their son, Kent Meier, works in the power industry with Border States Electric, a company that sells electrical equipment, tools and appliances. Their daughter, Cindy Lindskov has carried on the family tradition as a fourth-generation rancher in Isabelle, S.D., a town conveniently located just a stone's throw away from her parents.

It's amazing how much has changed over the years," said Ken. "Since the day we first got electricity, Moreau-Grand has done a great job of keeping our light on and burning bright."

National Grid Renewables is building a solar farm next to an existing substation near New Underwood.
Photo courtesy of Western Area Power Administration

New Underwood Solar Power Update

Scott Waltman

Next year, a new solar farm near New Underwood should be providing power for homes and businesses in South Dakota and beyond.

Wild Springs Solar is being developed by Minnesota-based National Grid Renewables. The same company already operates a wind farm in Clark County, so it might already be familiar to some residents.

The solar farm is projected to be the biggest one in the state, according to National Grid Renewables. It's being built on roughly 1,000 acres.

Plans call for it to produce 128 megawatts a year. That could power 16,000 South Dakota homes, though some of the electricity will also be sent out of state.

The solar farm is being built near an existing Western Area Power Administration substation, making for easier power distribution to groups like Basin Electric Power Cooperative, one of the largest providers of electricity in the Dakotas.

"When determining where to site renewable energy projects, things we consider include but are not limited to accessibility to transmission, land availability, resource, customer demand and community support," a Wild Springs Solar representative. "The Wild Springs project area was selected for proximity to the electrical transmission system, New Underwood substation, land suitable for a solar project from an environmental, regulatory/permitting, design perspective and cooperative landowners."

Construction on the solar farm began in January.

Basin Electric, which is based in Bismarck, N.D., is a transmission cooperative that serves about 3 million customers in nine states. It has an agreement with National Grid Renewables to purchase 114 megawatts of electricity.

For Basin Electric, the agreement amounts to the first time it has agreed to buy solar power on a large scale. The cooperative has plans to bring on more than 150 megawatts of solar capability in the next two years.

Andy Buntrock, Basin Electric's vice president of strategic planning and communications, said stressing reliability is a priority for the cooperative this year.

"When we communicate on renewables we emphasize that they are just part of an all-of-the-above energy strategy that ensures reliable and

affordable power for our membership," he said. "It's important that we maintain dispatchable generation that has a reliable fuel source, while taking advantage of non-dispatchable generation like our first-ever solar project in South Dakota."

Coal and natural gas are examples of dispatchable generation. They are fuels that are highly dependable because they are in constant supply.

"The construction of the Wild Springs Solar Project in South Dakota represents our commitment to bringing clean, renewable energy and economic development to the state of South Dakota. The project will contribute significantly to the tax base, as well as the local communities," the National Grid Renewables spokesperson said.

In 2020, the South Dakota Public Utilities Commission approved a construction permit for Wild Springs Solar. That procedure set out what's being built near New Underwood, including:

- 340,000 solar panels.
- A tracking system.
- Access roads.
- A substation.
- An operation and maintenance building and parking lot.
- Electric collection lines.

The plant will use solar panels that have been developed by First Solar.

National Grid Renewables is establishing a charitable fund for the New Underwood School District with plans to donate more than $500,000 in the first plant's first two decades.

"Our National Grid Renewables onsite team has also worked closely with the school board and district to provide additional education about solar energy and the Wild Springs Solar project to some of the local high school classes, including a personalized tour of the site," the company representative said.

But National Grid sees benefits that extend far beyond the Pennington County community. The upside, according to National Grid Renewables, will also include:

- Offsetting 193,000 metric tons of carbon dioxide emissions each year.
- A $22 million economic impact in the project's first 20 years of operation.
- $12 in new tax revenue in the first two decades.
- 225 new construction and operation jobs.

And when the plant is producing power, that should equate to the removal of 41,000 vehicles from roads in a year's time.

WAPA helped clear the way for the project in 2021, finding the solar farm would have no significant impact on environmental resources or humans, said Eric Barendsen, public affairs specialist for WAPA.

That's also when WAPA entered into an agreement with Wild Springs Solar and the Southwest Power Pool allowing the solar farm to be connected to WAPA's New Underwood Substation.

Ultimately, that will help Basin Electric power South Dakota.

The cooperative transmits power to two generation and transmission cooperatives in the state – Rushmore Electric Power Cooperative and East River Electric Cooperative. Those co-ops then send electricity to their distribution cooperatives, which provide electricity to homes, schools and businesses across South Dakota.

The Clark County wind farm uses 77 turbines to create 200 megawatts of power, the National Grid Renewables representative said. It began operation in 2019 and employs 10 people.

Construction began earlier this year on a large solar farm near New Underwood in Pennington County. Some of the power will be purchased by Basin Electric and be distributed to cooperatives in South Dakota.

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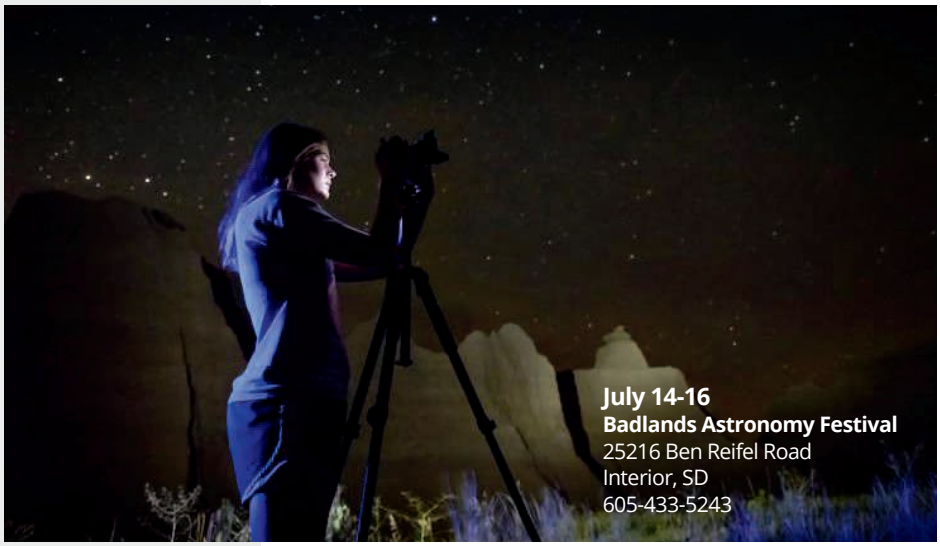

July 14-16
Badlands Astronomy Festival
25216 Ben Reifel Road
Interior, SD
605-433-5243

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.

JUNE 23-25
46th Annual Main Street Arts & Crafts Festival
Centennial Park
Hot Springs, SD

JULY 1
Hill City's Annual Star-Spangled Celebration
8 a.m.
Hill City, SD
605-574-2368

JULY 4
Philip VFD Firework Display
Lake Waggoner
Philip, SD

JULY 7-8
Buffalo Gap Blow Out Rodeo
6 p.m.
Buffalo Gap, SD
605-890-1533

JULY 8-9
Brookings Summer Arts Festival
Brookings, SD
605-692-2787

JULY 12
Tracy Area Gardens & Quilts Tour
2 p.m.
Tracy, MN

JULY 13-16
Pioneer Days
White, SD
605-690-4458

JULY 14-16
Burke Stampede PRCA Rodeo
Burke, SD
605-830-2083

JULY 15
Huron MS Walk/Run
8 a.m.
Lake Byron
Huron, SD
605-350-5922

JULY 15-16
Charles Mix Saddle Club SDRA Rodeo
Geddes, SD
605-680-2763

JULY 21-23
Winner Elks 54th Annual Rodeo
Winner, SD

JULY 28-29
Farley Fest
Lake Farley Park
Milbank, SD

JULY 30
Bergen Threshing Bee
9 a.m.
Bristol, SD

AUG 21
30th Annual Bishop's Cup Golf Tournament
Minnehaha Country Club and The Country Club of Sioux Falls
Sioux Falls, SD

AUG 19
Hot Rods for the Hatchery Car Show
D.C. Booth Fish Hatchery
Spearfish, SD
605-642-7730

SEPT 4
Hidewood Valley Stream Threshing Show
Steam Whistle Blows
1 p.m.
47236 183rd St
Clear Lake, SD

SEPT 10
10th Annual Black Hills Beer Run
Spearfish Campground Pavilion
D.C. Booth Fish Hatchery
Spearfish, SD
605-642-7730

SEPT 29-30
Junkin' Market Days
Ramkota Exhibit Hall
Sioux Falls, SD

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