



COOPERATIVE CONNECTIONS



Sica Hollow State Park near Sisseton is one of several hidden gems in the park system that are waiting to be discovered

Spotlight on State Parks

**Hidden treasures
for you to discover**
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**REED Fund fills
community needs**
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SPRINGTIME CONSTRUCTION AND 2022 PLANS



Jordan Lamb
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For the second year in a row, we have experienced mild winter temperatures with occasional 'cold shots'. Oahe Electric is optimistic that this spring will continue to be mild and allow for great construction weather. In 2021, we connected 80 new services, almost twice the normal amount for our cooperative. We anticipate similar hookups for 2022 and have planned material orders to reflect that.

In 2021, we submitted applications for many grants, both state and federal, and are pleased to announce that we have received some. One grant is for a Level 3 DC Fast Charger for electric vehicles and was offered through the state. Our application was selected for a charger in the Pierre area. These chargers cost upwards of \$100,000 and we were the only cooperative in the state to be awarded this grant. We are excited for this opportunity and thank the state for offering it to our local communities!

Several other grants we applied for were offered through FEMA. These projects focus on hazard mitigation by hardening infrastructure that may put many people at risk. Our focus is converting main overhead three-phase lines to underground on facilities that serve critical loads (water supplies, schools, etc). For these grants, the State pays 10 percent, Oahe pays 10 percent, and federal pays 80 percent. A single mile of three-phase buried line typically costs \$80,000-\$120,000, and these grants create not only better reliability to critical loads throughout our territory but also better reliability to all members and huge cost

savings on facilities we would eventually be paying for.

We will continue our ambitions to pursue both state and federal dollars available to bring more value to our members.

We have revisited rates and continue to develop new rates. One rate we are putting together right now is an incentive rate for shop heat. This rate will include load control to avoid high billing peaks with a discounted energy price to the members. It works particularly well on in floor heat due to the thermal mass maintaining temperatures while under load control. At 6 cents per kWh, electricity is roughly half the price of natural gas. For a new incentive rate, we will be further below the existing heat/ac rate of 5.5 cents per kWh. Exciting news for our members with existing shops or ones planning to build, be sure to check with us in the future regarding this rate.

Final news – East River Electric Cooperative and Oahe Electric Cooperative are now offering rebates for mini split heat pumps. These qualify for the existing heat and air conditioning rate as well, but a \$300 rebate per unit helps pay for the up front cost of the purchase and installation. We look forward to new rebates on other equipment as new technology emerges.

As always, we thank you all for being great members! We are excited for 2022 and beyond!

COOPERATIVE CONNECTIONS OAHE ELECTRIC

(USPS No. 019-042)

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Our Mission

Oahe Electric delivers high quality, low-cost electric service to our local member-owners. As a Touchstone Energy® Cooperative, we are committed to meeting the highest standards of customer satisfaction. We do business with accountability, integrity, innovation and commitment to community. As an electric co-op, we are part of America's most trusted network of high quality energy providers.



Cooperative Connections Card Program Vendors

Automotive

Graham Tire Company	605-224-8643	Pierre	Receive a 10% discount on regularly priced service work. Cannot be combined with any other offer.
Lamb Motor Company	800-952-2222	Onida	Receive a free alignment check with the purchase of 4 new tires.
Napa Auto and Truck Parts/Farnam's Genuine Parts, Inc.	605-224-8624	Pierre	Receive 10-50% off retail price.

Food/Convenience Store

Branding Iron Bistro	605-494-3333	Pierre	Enjoy \$1 off your order. Limit one per visit.
Gator's Pizza Pasta and Subs	605-224-6262	Pierre	Purchase any large pizza at regular price and receive a FREE order of breadsticks.
Grey Goose Store	605-945-0794	Pierre	Receive a free 20 oz. fountain soda or coffee with the minimum of a \$30 gas or diesel purchase.
The Corner	605-258-2400	Onida	Buy one breakfast sandwich at regular price, get second half off.

Health/Fitness and Beauty

Anytime Fitness	605-224-4011	Pierre	Receive a free two-week mini-membership.
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Home/Garden

Slumberland Furniture	605-945-1997	Pierre	20% off any regular priced Lazy Boy items. Excluding special orders.
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Services

Apryl's Animal House	605-224-9203	Pierre	10% off a grooming or boarding
Inman's Water Technologies	605-224-5111	Pierre	Receive a 15% discount on the rental price of a water softener and/or reverse osmosis drinking water system by paying a year in advance. Receive 10% off of the purchase price of a new Water Softener or reverse osmosis drinking water system when you mention this ad. Payments made by credit cards do not qualify for discounts/specials.
Olson Plumbing Inc.	605-224-6436	Pierre	\$50 discount on any electric boiler, Marathon water heater, or fireplace
Small Engine House	605-224-5815	Pierre	10% off parts and labor

Sports/Recreation

Teton River Traders Gun Shop LLC	605-224-1371	Ft. Pierre	2% discount. Payments made by credit cards do not qualify for discount.
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Retail

Fastenal	605-224-4060	Pierre	10% off of fasteners and 5% off on all other products
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Four shocking electrical dangers in your home

Contact with electricity can result in something as innocuous (but still painful) as a mild shock to severe injuries like nerve damage and burns. In some cases, it can even cause cardiac arrest and death. Here's a list of some of the most common shock risks inside a home.

1. Appliances. Most shocks from household appliances occur during repairs. It's not enough to turn off an appliance before working on it - you need to unplug it to reduce risk. Large appliances are responsible for 18 percent of household electrical accidents; small appliances account for 12 percent.

There's also danger if your appliance comes into contact with water. Many of these hazards can be avoided by using a ground-fault circuit interrupter. A GFCI is a protective device installed on electrical outlets, primarily used where water is present. When the device detects an imbalance in the electric current, it turns off the power to minimize the potential for an electric shock.

2. Ladders. Typically, ladders present a falling hazard, but 8 percent of household shocks are also related to ladders. Electrocution typically happens when the ladder makes contact with electrical wires. Before you use a ladder, make sure you can clearly see all power lines in the area - including those that may be hidden by tree branches. Ensure that the ladder is 10 feet away and won't contact a power line if it falls in any direction.

3. Power tools. Power tools account for 9 percent of consumer product-related shocks. According to OSHA, when you use power tools that are not double-insulated, are damaged or have damaged cords, you increase your chances of being injured. The chance of danger also increases when you use incompatible cords, use power tools incorrectly or use them in wet conditions. This is another situation in which GFCIs can help.

4. Electrical outlets and extension cords. Inserting anything that doesn't belong - screwdrivers, knives, fingers or toy cars, to name a few - into an electrical outlet can result in a dangerous electrical contact.

Use cover plates that fit properly and safety covers on all outlets. By installing tamper-resistant receptacles, outlets will have permanent security against foreign objects being inserted into the slots.

Any broken, loose or worn-out plugs, switches and light fixtures should be replaced immediately.

WE'VE GOT CO-OP COUNTRY COVERED



We know you love to read your local edition of Cooperative Connections magazine, but you'll get more great content when you visit our video companion, Cooperative Connections Plus. Scan the QR code or search YouTube for Cooperative Connections Plus and you'll be treating yourself to an intriguing repository of videos on interesting events going on around our state. There's walleye fishing, rodeos, electric vehicles, curling, Christmas at the Capitol, the State Fair and much more. Visit us today!



Call 811 before digging

Amelia Swift Hawk

Amelia Swift Hawk knows that it's wise to call 811 before digging into the ground. Amelia and her parents, Michael and Alyssa Swift Hawk, are members of Moreau-Grand Electric based in Timber Lake.

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.



SAVORY SEAFOOD

OYSTER STEW

Ingredients:
 1 onion, chopped
 6 T. butter
 2 tsp. minced garlic
 6 cup whole milk
 1 pint (2 cans) oysters - do not drain
 1/4 tsp. red pepper flakes
 1/4 tsp. paprika
 1 tsp. parsley
 1/4 tsp. Tabasco sauce

METHOD

Sauté onion and garlic in butter. Stir in undrained oysters. Cook at medium heat about 5 minutes until oysters curl at the edges. Stir in milk, red pepper flakes, paprika, parsley, and Tabasco sauce. Heat to serving temperature. Serve with oyster crackers.

Jane Ham, Rapid City

GRILLED SALMON

Ingredients:
 1 1/2 lbs. salmon fillet cut into 6 slices
 2 tbsp. olive oil extra virgin
 1 lemon or lime (juice of)
 1 tsp. smoked paprika
 1 tsp. garlic powder
 1 tsp. onion powder
 1 tsp. salt
 Ground black pepper to taste

METHOD

In a small bowl, add olive oil, lemon juice, smoked paprika, garlic and onion powders, salt, pepper. Whisk to combine. In a shallow flat dish with edges, lay salmon slices and brush with marinade. Marinate from 10 minutes to 24 hours. Longer marinating time, more flavorful salmon. Preheat grill to 450-500. Clean grill and oil grates with oil-soaked paper towel to avoid salmon sticking to the grill. Place salmon on the grill skin side up, close the lid and grill for 4-5 minutes. Check with spatula – if salmon has grill marks and comes off easy, flip it. Cook uncovered for another 3-4 minutes or until thermometer reads 125 degrees for medium rare or 140 for medium. Serve hot or cold on top of salad, mango salsa, guacamole, brown rice or quinoa. ifoodreal.com

SHRIMP AND SAUSAGE JAMBALAYA

Ingredients:
 12 ozs. fully cooked andouille sausage, cut to 1/2-inch slices
 12 ozs. uncooked shrimp (31-40 per lb.), peeled and deveined
 1 med. green pepper, chopped
 1 med. onion, chopped
 2 celery ribs, chopped
 3 garlic cloves, minced
 2 tsps. Creole or Cajun seasoning (paprika, with cayenne pepper, oregano, dried sweet basil)
 1 can (14-1/2 ozs.) fire-roasted diced tomatoes, drained
 1 cup uncooked "instant" rice
 1 can (8 ozs.) tomato sauce
 1/2 cup chicken broth
 3 green onion sprigs chopped

METHOD

Preheat oven to 425°. In a large bowl, combine all ingredients. Divide mixture among six greased 18x12-inch pieces of heavy-duty foil. Fold foil around mixture and crimp edges to seal, forming packets; place on a baking sheet. Bake until shrimp turn pink and rice is tender, 20-25 minutes. Use caution when opening packets as they will be steamy. Consider adding jalapenos to taste and/or some chopped pineapple to cool the palate. Try serving for breakfast or brunch with sumptuous eggs and biscuits.

Shannon Collins/Taste of Home

Please send your favorite beverage 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 2022. All entries must include your name, mailing address, phone number and cooperative name.



Valerie Marso

vmarso@
oaheelectric.com

SIGN UP FOR AUTO PAY AND WIN \$100

Life is busy and you're always on the go. We get it. That's why we have options available to make receiving and paying your electric bill a breeze. AND if you sign up now you can take advantage of being entered into a drawing to receive \$100! If you are already signed up for

auto pay, you will automatically be entered into a separate drawing as our way of saying thank you for participating in this program.

Auto Pay

Don't worry about due dates or late fees again! Complete the form below and you won't have to spend any more of your time writing or mailing checks. You can select checking

account, savings account, debit card or credit card to be used for the automatic payment.

Paperless Billing

Cut down mailbox clutter, not trees! With SmartHub, you can receive an email notification the day that bills are generated. No more waiting! Go to www.oaheelectric.com to sign up today. You can also pay your bill on SmartHub, view previous bills, and if you really want to you can receive both the email notification as well as the paper bill.

Budget Billing

No more guessing what your bill is! You can sign up for budget billing in May or June and know how much your electric will be each month. If you would like to enroll in this option, call us at 1.800.640.6243

All of these features are FREE and can make your life just a little bit easier. Plus, you could win some extra cash! Return the form below by **May 20, 2022**, to be entered.

Member Authorization to Direct Payment via ACH or Credit/Debit Card

Member Name(s): _____

Electric Account Number(s): _____

Direct Payment via ACH is the transfer of funds from a member account for the purpose of making a payment.

Check one: ☐ **Begin Payment** ☐ **Change Information**

I/we authorize Oahe Electric Cooperative, Inc. to electronically debit my/our account and, if necessary, to electronically credit my/our account to correct erroneous debits as follows:

Check one: ☐ **Checking Account** ☐ **Savings Account** ☐ **Credit/Debit Card**

at the depository Financial Institution named below ("DEPOSITORY"). I/We agree that ACH transactions I/we authorize comply with all applicable laws.

Depository name: _____ Routing number: _____

Account number: _____

Name(s) on the account: _____

OR

Credit/Debit card number: _____ Exp. Date: _____

Debit transaction frequency:

Recurring Entries (entries that recur at substantially regular intervals, without further affirmative action by the Receiver)

Date of debit: Payments will commence the month following the receipt of this form, on the 20th of each month or the closest business day if the 20th falls on a weekend or holiday

Number of and/or frequency of debits: Monthly

Authorized debit amount (or method for determining amount): Monthly Billing Amount

I/We understand that this authorization will remain in full force and effect until I/we notify Oahe Electric Cooperative, Inc. in writing or via phone that I/we wish to revoke this authorization. I/we understand that Oahe Electric Cooperative, Inc. requires at least 3 day prior notice in order to cancel this authorization.

Name(s): _____

(Please Print)

Date: _____ Signature(s): _____

QUESTION OF THE MONTH

This month's question is:

What are the sign up months for Budget Billing?

Please submit your answer via email to oahe@oaheelectric.com with the subject line of "Question of the Month." A surprise gift will be sent to the winner!

WINNER OF QUESTION OF THE MONTH

The Question of the Month winner for the January 2022 publication was Vicky Wilkey. She correctly answered the question, "How much is the residential facility charge increasing in 2022?" with the answer being \$2/ month.

Congratulations and we hope you enjoy your prizes!

LIKE US!

You can now keep in touch with your cooperative on Facebook! We will share with you the latest news, events, power outage updates, energy efficiency tips, money-saving rebates, load management information, legislative alerts, safety tips and much more!

We hope you "like" Oahe Electric Cooperative, Inc. on Facebook!

COOPERATIVE TAXES GO BACK INTO THE LOCAL COMMUNITY

Every year, your electric cooperative pays a kilowatt-hour tax directly to the Hughes and Sully County treasurer's office, who then forwards funds on to the school district. Electric cooperatives are unique in several aspects and paying a kilowatt hour tax is one of them. No other entities pay this tax.

Although it has been modified from its inception as the two percent gross receipts tax, cooperatives have always paid taxes to the schools. The calculation is based off our kilowatt-hour sales so the more sales we have, the more money the school districts receive! Over the past 10 years, the total the ABO, Pierre, Highmore-Harrold and Gettysburg schools have received from Oahe Electric and our power suppliers (Basin Electric and East River Electric) is over **\$3.3 million!**

Fortunately, we are a growing cooperative. To put our growth into perspective, for 2012 we paid just over \$266,000 to the schools. For 2021, we will be paying over \$450,000!

Commitment to Community – just another important aspect that sets your electric cooperative apart!

Statement of Non-Discrimination

In accordance with Federal civil rights law and U.S. Department of Agriculture (USDA) civil rights regulations and policies, the USDA, its Agencies, offices, and employees, and institutions participating in or administering USDA programs are prohibited from discriminating based on race, color, national origin, religion, sex, gender identity (including gender expression), sexual orientation, disability, age, marital status, family/parental status, income derived from a public assistance program, political beliefs, or reprisal or retaliation for prior civil rights activity, in any program or activity conducted or funded by USDA (not all bases apply to all programs). Remedies and complaint filing deadlines vary by program or incident. Person with disabilities who require alternative means of communication for program information (e.g., Braille, large print, audiotape, American Sign Language, etc.) should contact the responsible Agency or USDA's TARGET Center at (202)720-2600 (voice and TTY) or contact USDA through the Federal Relay Service at (800)877-8339. Additionally, program information may be made available in languages other than English. To file a program discrimination complaint, complete the USDA Program Discrimination Complaint Form, AD-3027, found online at http://www.ascr.usda.gov/complaint_filing_cust.html and at any USDA office or write a letter addressed to USDA and provide in the letter all of the information requested in the form. To request a copy of the complaint form, call (866) 632-9992. Submit your completed form or letter to USDA by: 1.) mail - U.S. Department of Agriculture, Office of the Assistant Secretary for Civil Rights, 1400 Independence Avenue, SW, Washington, D.C. 20250-9410; 2.) fax: (202) 690-7442; or 3.) email: program.intake@usda.gov. USDA is an equal opportunity provider, employer, and lender.

HIDDEN TREASURES

Despite its legacy as the site of an epic battle over good and evil, Sica Hollow State Park near Sisseton is a source of family fun for those who want to get away and enjoy the great outdoors. *Photos by SD Tourism.*

The State Park system has seen visitation increase with new programs in place to serve the public

Billy Gibson

billy.gibson@sdrea.coop

At first blush, Sica Hollow State Park might seem like someplace you'd want to avoid.

The area was named after a Dakota Sioux word used to describe something sinister and features a winding pathway called the Trail of the Spirits. There are maroon-colored bogs, sangria-tinged streams and brown foliage that reminded early tribes of the blood and flesh of their ancestors.

The undulating terrain is said to be the site of an ancient spiritual battle in which the land and the people were overcome by a malevolent force. Local legend has it that the restless souls of the dead manifest themselves as unexplained bursts of fire and light in the night, disturbing sounds of agonized wailing and the ominous beat of war drums in the distance.

Apart from the spooky stories and eerie lore, Sica Hollow turns out to be one of many "hidden gems" in the

State Park system that are found off the beaten paths.

Sica Hollow is located in the northeast corner of the state near Sisseton where you'll find rustic bridges, winding creeks, scenic waterfalls and seasonal wildflowers festooning the eight miles of hiking trails. The Trail of Spirits, which today is a self-guided interpretive foot trail, was designated as a National Recreation Trail in 1971. The park also contains the Old River Warren and Coteau des Prairies, which have been named National Natural Landmarks.

With more than 60 facilities in its fold, the State Park system has lots to offer and includes several lesser-known destinations for families to discover such as Sica Hollow, Spirit Mound and Adams Homestead in the eastern part of the state and Shadehill, Rocky Point and Llewellyn Johns out west.

The Shadehill Recreation Area near Lemmon is situated on the shores of Shadehill Reservoir, which is one of western South Dakota's few large lakes.



At Llewellyn Johns Recreation Area, visitors will find a monument to Hugh Glass, a hunter who survived a vicious attack by a grizzly bear in 1823.

There are 85 campsites with seven camping cabins, a group lodge, and facilities for boating, fishing, canoeing, biking, archery and more.

Nearby is the much smaller Llewellyn Johns Recreation Area with just 10 campsites and an opportunity to enjoy

Approximate number
of visitors

8,400,000

to South Dakota
State Parks in 2021

a quieter and more secluded camping experience. There are points of historical interest close by as many historic figures have traveled through the area, including George Custer's 1874 Expedition and Hugh Glass. According to first-hand accounts, in 1823 Glass was attacked by a grizzly bear, an event documented in the novel *Lord Grizzly* and recounted in the movie, *The Revenant*.

Nick Harrington, communications manager for Game, Fish and Parks, reports that the system is stronger and more popular than ever. Last year more than 8.4 million visitors passed through the parks, representing a 25 percent increase in visitation over the nine-year average. Custer State Park, the system's most popular spot, saw a 3 percent increase in attendance with more than 2.3 million visitors.

Seventy-seven percent of visitors rated their camping experience as an A with 43 out of the 48 areas surveyed receiving the top rating.

To keep the momentum moving along, the State Park system has added 15 new facilities from a new Bison Center at Custer State Park to an improved boat ramp at West Whitlock Recreation Area.

And just in time for the spring and summer camping season there is a new and improved way of helping campers navigate the parks and outdoor facilities. Through www.gooutdoorsouthdakota.com, customers can secure a camping reservation or buy an annual park



Sica Hollow is one of the "hidden gems" in the state park system where visitors can commune with nature while learning about local lore.

entrance license while also purchasing hunting and fishing licenses all from the same transaction. A new mobile app provides 360 degree views of the more than 4,000 campsites in the system.

The Department of Tourism has also launched a free mobile pass called South Dakota Great Finds that helps users explore the state's many attractions, including hidden treasures like Sica Hollow. The pass can be accessed at travelsouthdakota.com, and there is no app to download.

According to Department of Tourism Secretary Jim Hagen, "This mobile experience allows us to better highlight what truly makes up the great state of South Dakota. It showcases rural America, unexpected businesses and parks, and gets people off the beaten path to discover something new."

Search for "Go Outdoors South Dakota" to find GFP's official mobile app for iOS and Android.

Top 10 most visited state parks in 2021

1. Custer State Park
2. Lewis & Clark Recreation Area
3. Spring Creek Recreation Area
4. Oahe Downstream Recreation Area
5. Cow Creek Recreation Area
6. Angostura Recreation Area
7. Roy Lake State Park
8. Farm Island Recreation Area
9. Springfield Recreation Area
10. Newton Hills State Park



WHAT IS OPERATION ROUND UP?

Operation Round Up® is just what the name implies: each month, Oahe Electric Cooperative, Inc. simply “rounds up” the electric bills of voluntarily participating members to the next highest dollar. For example, a member’s monthly bill of \$132.68 would automatically be rounded up to \$133, with the additional 32 cents going to the Operation Round Up Fund.

HOW DO I PARTICIPATE?

Oahe Electric’s Operation Round Up® program is an opt-out program – meaning that you are automatically enrolled, with nothing else needing done to participate! If you have not interested in donating, you can call the office at 1-800-640-6243 and request to be removed from the program.

HOW MUCH WILL IT COST MEMBERS?

The most a member can contribute is 99 cents per month x 12 months = \$11.88/year – this doesn’t sound like much, but with this small change, thousands of dollars can be generated and will mean a big difference to

the people and organizations in our area.

WHERE WILL THE MONEY GO?

All Operation Round Up® donations are placed in a trust and are administered by an independent board of trustees. The board is made up of community leaders who serve on a voluntary basis. The board evaluates all requests for funds, determines who will receive funding and how all Operation Round Up® funds will be distributed.

WHO IS ELIGIBLE FOR FUNDS?

The funds are used to address charitable community needs, whether it is disaster relief for an individual, or an organization funding a special project. Since the program’s first disbursement in 2009, the program has distributed over \$108,000. The region served by the fund is primarily the electrical area served by Oahe Electric Cooperative, Inc., including Hughes and Sully counties.

HOW DO I APPLY FOR FUNDS?

The easy-to-complete applications for funding are currently available and can be requested by phone at

605-962-6243. Applications can also be found on our website at www.oaheelectric.com. All applications are due by **April 30, 2022**.

Completed applications may be mailed to: Oahe Electric Cooperative, Inc., P.O. Box 216, Blunt, SD 57522, faxed to: 605-962-6306, or emailed to: oahe@oaheelectric.com. After the deadline, the board of trustees will meet and allocate the funds to those they feel are in the most need.

HOW DO I GET INVOLVED?

There are currently two, five-year board of trustees position openings. Trustees normally have to commit one afternoon a year to review fund request applications in person, with the possibility of correspondence regarding emergency fund requests throughout the year. If you are interested in offering your time to this endeavor, please contact Samantha Irvine, Operation Round Up Coordinator, at 1.800.640.6243 or oahe@oaheelectric.com.

Together, by giving a few cents each month, Oahe Electric members can make a big impact on life in our area!

The Alphabet for EVs



Russ Hohn

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It is easy to get confused when reading articles pertaining to the types of electric vehicles and how they work. Here is a list to use when trying to decipher what this new breed of vehicle is all about.

AC = Alternating Current. An electric current that reverses direction at regular intervals.

Amp = Unit of electric current

BEV = Battery Electric Vehicle. 100 percent powered by battery.

Charging = The location where electric vehicles can be plugged in and charged. Whether at home at work or a public access location.

Charging Station = Infrastructure that safely supplies electric energy for the recharging of electric vehicles also known as an EVSE (Electric Vehicle Supply Equipment).

Connector = A device attached to the cable from an EVSE that connects to an electric vehicle allowing it to charge.

Direct Current = An electric current of a constant direction.

DC Fast Charging = The fastest (high powered) way to charge electric vehicles quickly with an electrical output ranging from 50 KW-120 KW. This will fully charge an average electric car in 30-40 minutes.

EV = Any vehicle that uses electric motors for “full or partial” propulsion.

EVSE = Electric Vehicle Supply Equipment is a safety protocol that enables two-way communication between a charging station and electric vehicle. Basically it controls the safe current flow between the charger and the EV.

EREV = Extended Range Electric Vehicle. Although the electric motor of the PHEV always drives the wheels, EREV's feature an auxillary power unit, usually an internal combustion engine that acts as a generator to recharge the battery when it runs out.

FCEV = Fuel Cell Electric Vehicle that uses a fuel cell, usually hydrogen based, to generate electricity that runs an on-board motor.

HEV = Hybrid electric vehicle that integrates a small battery and an electric motor to enhance the efficiency of the engine. The battery charge is maintained by the ICE (Internal Combustion Engine) and it cannot be charged by plugging into an electrical supply. Hybrids offer greater fuel economy than a standard ICE but can only travel a very short distance on electric power only.

Incentives = Many governments offer incentives to encourage buyers to choose an EV. Incentives for EVs can include grants towards the purchase price, free parking and

exemption from city emissions and congestion charges.

ICE = Internal combustion engine is the technical name for the gas- or diesel-powered engines in most vehicles. It generates power by igniting an air-fuel mixture within a cylinder that forces down a piston. The number of cylinders in most common engines varies from three to twelve.

KWH = Kilowatt hour is a unit of energy equivalent to the energy transferred or expended in one hour by one kilowatt. Electric car battery size is measured in kilowatt hours, so think of it as the electric cars equivalent of gallons of gas in the gas tank.

Lithium-Ion Battery = This is the current standard in electric vehicle batteries, offering good energy density, power and fast charging capability. Life of a lithium-ion battery up to ten years is very good. After ten years the battery is expected to be 80 percent.

Level 1 Charging (Slow) = On-site circuit / outlet that delivers 120 volts of alternating current. Typically, a “cord set” is used to connect to a 120-volt wall outlet at 15 or 20 amps. This is the slowest method for recharging batteries. Majority of EV owners will purchase a Level 2 charger unit.

Level 2 Charging (Fast) = Level 2 supplies 240 volt similar to an electric clothes dryer or oven. Charge times are much quicker than Level 1.

PHEV = Plug In Hybrid Vehicle is configured like a traditional hybrid (also uses an internal combustion engine), but with a bigger battery pack that can be charged. Offering a chance to make short trips with zero emissions.

Pure Electric = A vehicle powered by electric motors only power only from on board batteries.

Range = The distance you can travel on pure electric power before the battery requires a recharge.

Range Anxiety = The anxious feeling of operating an electric vehicle with the fear of running out of battery charge while driving.

Regenerative Braking = An energy recovery system that can help charge the battery while the car is slowing down.

SAE-J1772 = The North American Standard for electrical connectors for EVs. The SAE standard covers the general physical, electrical, functional and performance requirements to facilitate charging of EVs.

Tesla Supercharger = Tesla uses a modified version of the type 2 Mennekes plug, which allows the Model S to recharge to 80 percent in 30 minutes.

Torque = The twisting force that causes rotation. Gasoline and diesel engines deliver torque over a curve as RPM increases, meaning they have peak power at a given RPM. Electric motors deliver maximum torque from zero revs, meaning acceleration from a standstill can be phenomenal.

Utility Rates = Rates can vary depending on the utility that provides power to the charger. Some rates have certain times of the day (Time of Use) when energy consumption is less expensive. Contact your power provider for rate information.

Zero Emission Vehicle = A vehicle that emits no tailpipe pollutants from the source of power.

REED FILLS THE NEED

Pictured at right, Renville-Sibley Co-op Power CEO DeeAnne Newville (left), presents a check to the local Community Center and Cougar Club daycare facility in Franklin, MN, through the electric cooperative REED Fund.

Electric cooperative REED Fund helps meet many needs for communities in South Dakota and western Minnesota

Billy Gibson

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Leaders of the Garretson community northeast of Sioux Falls had the vision for a much-needed expansion of the small town's non-profit daycare center. Since cobbling together two older structures in 2019 and taking in more tykes, it was apparent that the current white-hot demand for childcare was going to necessitate yet another expansion.

So they set their jaws, put together a plan and mustered up the will to make it happen for the sake of local families and the greater good of the community.

Now, all they needed was a miracle.

That miracle came in the form of a random conversation that took place between Blue Dragon Academy Board Member Kris Frerk and Sioux Metro Growth Alliance CEO Jesse Fonkert.

Frerk was in full fret mode over a lack of funding for the project, but it turned

out Fonkert had a fail-safe solution.

Through his contacts Angie Neises at East River Electric and Jay Buchholz at Sioux Valley Energy, Fonkert was aware of the Rural Electric Economic Development Fund, or REED Fund. He knew it was a valuable financial resource made available by electric co-ops in South Dakota and western Minnesota just for this kind of project.

Bottom line: Blue Dragon Academy will begin work in April with plans to complete the 3,500-sq. ft. project in November. Best of all, nearly 40 more families in and around the town of Garretson will have access to quality child care services.

While Frerk doesn't recall any trumpets blaring or harps playing in the background, she contends that her off-hand discussion with Fonkert was delivered by divine intervention.

"It's a pure miracle," she said. "We had been putting feelers out for funding because we have a big need in this area.

When I got that information from Jesse, it was just like a miracle. We jumped on it, we got accepted by the REED Fund Board and now we're ready to get the work done."

Blue Dragon secured a low-interest REED loan for nearly \$700,000. The non-profit organization is required to match \$239,000. Now Frerk and her crew are heavy on the fund-raising trail and have already received tremendous support from many donors in the community, she said. The Blue Dragon Board hopes to pay the debt off early with plans to hire five or six more workers once the project is complete.

For East River Electric Economic Development Director Eric Fosheim, it was another day at the office. His job is to match the money with the need, and he says many recipients respond with the enthusiasm and gratitude Frerk expresses when they receive funds.

He does fall just short of uttering the "M" word, however.



“It’s extremely satisfying to be in a position to help people solve problems and overcome challenges in their communities,” Fosheim said. “We try to work together with folks to cut through the red tape and bureaucratic impediments and come up with clever ways to get projects across the finish line. This is all made possible through the electric cooperatives and the fact that they take their responsibilities and obligations to their communities very seriously.”

The REED Fund has backed scores of projects and loaned out more than \$100 million since it was established in 1996. Fosheim sees it as the perfect tool for promoting local economic growth, improving infrastructure, enhancing community facilities and contributing to job, business and wealth creation.

Funds have gone to retail and service businesses, industrial parks and office facilities, fire protection projects, manufacturing firms, housing projects, health care facilities and more.

Approximate
amount of money
\$100 million
loaned through the
electric cooperative
REED Fund

Chris Larson, general manager at Clay-Union Electric in Vermillion, and his board tapped REED funds to support the Wakonda Heritage Manor assisted living facility. They also worked with the business to secure a zero-interest loan through the USDA’s Rural Economic Development Loan and Grant Program.

“It’s truly an honor for us to have this tremendous resource available to help improve the lives of our members and the community at-large,” Larson said.

The real meaning of the REED program came to light when he and the board visited the place.

“We viewed the improvements they’d made, and heard from the people there about how it enhanced their quality of life. It really warms your heart to know you’re part of a co-op system that can have a positive impact on families and businesses. It just shows how much of a difference we can make when we all work together, pool our resources and get things done.”

East River cooperatives serving western Minnesota have also participated in the program. As with the Garretson community, parents in Franklin, MN, also had a need for a daycare center.

www.reedfund.coop

RURAL ELECTRIC ECONOMIC DEVELOPMENT FUND REED FUND

CREATING
IMPACT

PROVIDING
CAPITAL

BUILDING
COMMUNITY

The Cougar Cub Child Care Center was launched with the help of REED funds obtained through Renville-Sibley Co-op Power after two of the town’s three daycare facilities closed.

Renville-Sibley CEO DeeAnne Newville said, “We were happy to help fill the gap. Concern for community is one of the seven cooperative principles. It’s an example of the city, school and economic development coming together for the good of the people in our rural communities.”

For more information about the REED Loan program, visit www.reedfund.coop.

CUTTING CARBON, SAVING CASH



Owned by H-D Electric Cooperative based in Clear Lake, this Tesla Model 3 has been used during the legislative session to educate lawmakers about the emergence of EV technology and beneficial electrification. *Photo by Billy Gibson*

Cooperatives promote the concept of beneficial electrification to help members cut carbon and save money

Billy Gibson

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Lather. Rinse. Repeat.

When that short snappy algorithm started appearing on the sides of shampoo bottles back in the 1950s, some said it simply encouraged people to practice good hygiene and do a more thorough job of scrubbing their tresses right down to the scalp.

More cynical observers took it as a thinly-veiled scam devised by some devious marketing firm to sell more shampoo and spin bathers into an endless cycle of washing their hair, breaking only long enough to go out and purchase more Prell.

Rare is the business that encourages customers to use less of its product. But that's the very approach that lies at the

heart of electric cooperatives and their guiding principles. Electric co-ops exist exclusively to deliver the power their members need, but they also go above and beyond by working to make sure their members don't pay a penny more than the cost of providing the service while helping them to better manage their consumption.

That basic formula has remained the same since the rural electric cooperative movement began back in the 1930s, even as new methods of generating, distributing and using electricity have evolved over the decades. Every step along the way, co-ops have stood at the forefront to help members make the best and most efficient use of whatever new development comes down the pike.

Enter the emergence of a concept

called beneficial electrification. This is a relatively new term that describes the pursuit of solutions that allow cooperatives to meet rising service demands while helping their consumers save money over time, lowering greenhouse gas emissions, fostering a more resilient electrical grid, protecting the environment and improving the quality of life for all.

Across the country, electric cooperatives are launching and embracing beneficial electrification programs and blazing pathways that lead to providing more value to members, their local communities and the environment.

Some of what falls under the heading "beneficial electrification" has been adopted by co-ops and their consumers for years, such as replacing older and inefficient gas furnaces and water heaters with more efficient electric heat pumps. More recently, cooperatives have implemented load management programs that enable the co-op to control devices in the home and help balance power supply and demand, resulting in more efficient consumption and potential savings for

the member. Or as it's known in more colloquial terms, a "double back scratch."

And even more recently, cooperatives have accelerated their adoption of renewable power and have gotten involved in programs to incentivize the use of electric vehicles and help build out a system of fast-charging stations across the state, region and nation.

All of these types of initiatives are called "beneficial" because they help members save money and also help protect the environment.

In his role as Manager of Beneficial Electrification at Sioux Valley Energy in Colman, Ben Pierson often works with members to give them what they've indicated through surveys that they want: more information about how they can use technology to reduce their energy consumption while saving money.

"As we get out in the community, we hear from our members all the time, especially as we discuss the benefit of EVs in particular," Pierson said. "We try to make it easier to integrate this emissions-reducing and money-saving technology by offering incentives for installing home chargers and a time-of-use plan that allows members to charge their cars overnight at a much lower cost."


Pierson said some members are taking advantage of the home-charger incentive even though they aren't yet among the nearly 500 South Dakotans who own an EV.

"They're just excited that we've made these programs available," he said. "They realize EVs are going to be a substantial part of our transportation future and they want to be ready to ease the transition for them and their families."


Robert Raker is manager of communications and public relations at West River Electric and works out of the co-op's Rapid City office. Raker sees a fertile field for promoting beneficial electrification as the Rapid City area experiences accelerated growth. Like Sioux Valley Energy and other co-ops around the state, West River Electric offers load management programs, rate structures and incentives

SAVE MONEY


Electricity is becoming cleaner every day and can save consumers money on their energy costs over time.



Did you know...
Replacing your HVAC system with an electric heat pump can **save you nearly \$1,000 per year** on your heating and cooling bills.¹



Did you know...
The average cost of **charging an electric car** is equivalent to **\$1.20 per gallon of gasoline**.²



Did you know...
Owning an electric vehicle can **save you over \$800** in annual maintenance.³

for electric appliances like water heaters and heat pumps.

He uses the cooperative's Nissan Leaf EV to demonstrate the advantages of this emerging technology and is also part of the effort to leverage government and private funds to build a reliable EV charging network.

As neighborhoods grow and businesses expand in his area, Raker collaborates with developers to promote beneficial electrification. He also sees value in encouraging residential members to make more beneficial use of electricity by converting lawn implements from gas to electric.

"We've seen a real shift in mentality toward carbon-free growth," he said. "Our job is to educate and inform our members about how they can continue to integrate technology into their everyday lives on any scale."

As spring and summer are just around the corner, he said, one way most residential members can help in the goal to curb carbon emissions is to convert lawn and garden equipment from gasoline to

electric/battery-powered.

Electric lawn care equipment options are becoming more popular than ever, offering consumers faster charging times, longer battery life and quieter, greener products.

There are several electric lawn mower brands that operate without a cord, unlike the first generation of electric mowers. Typically priced in the \$200-\$500 range, electric mowers are powerful, low maintenance, and work well for lawns that are a half-acre or less.

Electric trimmers and leaf blowers are also catching up to their gas-powered competitors in performance and reliability.

Raker encourages members to do their research before investing in electric lawn equipment, citing consumerreports.org as a trust source of information.

He and Pierson agree that beneficial electrification is the way of the future and there's no better time for members to engage in this environmentally-friendly approach than the present.



March 12
28 Below Fatbike Race, Ride and Tour
 Spearfish Canyon Lodge, Lead, SD

Photo by Travel South Dakota

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.

To view the publication's master event calendar, scan the QR code below:



Or visit <https://sdrea.coop/cooperative-connections-event-calendar> to view more upcoming events.

FEBRUARY 25-26
Mardi Gras Weekend
 Main Street, Deadwood, SD,
 605-578-1876

FEBRUARY 25-27,
MARCH 3-5
Making God Laugh
 Grand Opera House, Pierre,
 SD, 605-224-7826

FEBRUARY 26
The Music of John Williams
 Washington Pavilion, Sioux
 Falls, SD, 605-367-6000

MARCH 3-5
Pro Snocross Races
 Days of '76 Rodeo Grounds,
 Deadwood, SD, 800-344-8826

MARCH 4-5, 10-13
The 39 Steps
 Orpheum Theater Center,
 Sioux Falls, SD, 605-367-6000

MARCH 4-6
Home & Garden Show
 Brown County Fairgrounds,
 Aberdeen, SD, 605-225-2055

MARCH 5
I Hate Winter Cornhole
Tournament
 Scherr Howe Arena,
 Mobridge, SD, www.mobridge.org/Corn-Hole-Tournament

MARCH 5
Mountain West® Whiskey
Festival
 Rushmore Hotel, Rapid City, SD,
www.mountainwestwhiskeyfestival.com

MARCH 5
Road 2 Destruction Tour
 The Monument Summit Arena,
 Rapid City, SD, 605-394-4115

MARCH 5-8
2022 Summit League Men's
and Women's Basketball
Championships
 Denny Sanford Premier Center,
 Sioux Falls, SD, www.thesummitleague.org/tickets

MARCH 10
Singing in the Rain: Dinner
& A Movie
 Goss Opera House, Watertown,
 SD, 605-753-0200

MARCH 10
TobyMac Hits Deep Tour
 The Monument Summit Arena,
 Rapid City, SD, 605-394-4115

MARCH 10-13
Annual Sioux Empire
Sportsmen's Show
 Denny Sanford Premier Center,
 Sioux Falls, SD, www.sioxfordfalls.sportshow.com

MARCH 12
28 Below Fatbike Race, Ride
& Tour
 Spearfish Canyon Lodge, Lead,
 SD, www.28below.com

MARCH 12
Meraki Dance Competition
& Convention
 Washington Pavilion, Sioux
 Falls, SD, 605-367-6000

MARCH 12-13
Hill City's Antique and
Railroad Show & Sale
 440 Main Street, Hill City, SD,
 605-574-2821 or 605-877-6629

MARCH 12-13
2022 Philip Area Annual Gun
Show
 American Legion Hall, Philip,
 SD, 605-859-2280,
 605-441-1216 or 605-685-4768

MARCH 18-19
St. Patrick's Day Weekend
 Main Street, Deadwood, SD,
 605-578-1876

MARCH 18-19
Sioux Empire Arts & Crafts
Show
 W.H. Lyon Fairgrounds, Sioux
 Falls, SD, 605-332-6000

MARCH 18-19, 25-26
Schmeckfest
 748 S Main Street, Freeman,
 SD, 605-925-4237

MARCH 19
St. Patrick's Day Celebration
 Various Locations, Watertown,
 SD, 605-886-5814

MARCH 26
Annual Ag Day
 Washington Pavilion, Sioux
 Falls, SD, 605-367-6000

APRIL 22-24
36th Annual Korkow Ranch
Rodeo School
 Korkow Ranch, Pierre, SD,
 605-224-5607, www.korkowrodeos.com

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