

# Central Electric

Your Touchstone Energy® Partner 

## Cooperative Connections

MAY 2016 VOL. 17 NO. 1



**Energy Rx**  
**Wall Drug Looks**  
**for Prescription**  
**for Savings** P8-9

# Stay Safe this Spring



**Ken Schlimgen**  
General Manager

I want to thank everyone who joined us for our Annual Meeting on April 5th. I also want to thank the City of Mitchell for allowing us to once again use the Mitchell Corn Palace facility and to Central Catering for serving another quality meal.

Our Guest Speaker was Steve Tomac, Senior Legislative Representative from Basin Electric. Steve gave a summary of the history of the Clean Power Plan (CPP) and its potential impact on

your cooperative. He also explained what Basin Electric is doing to prepare for, and minimize its impacts. Good news has been hard to find when discussing the CPP, but on February 9th, the U.S. Supreme Court granted a stay, halting its implementation. This means the Environmental Protection Agency can't enforce the CPP until the federal courts decide if the rule is legal. This process may take until late 2017 or possibly 2018 to be completed. Your cooperative family has the support of our Public Utility Commission, Attorney General, and our Congressmen in contesting the Clean Power Plan. Stay tuned for future updates on the status of the CPP.

During the Annual Meeting, we also heard a presentation from Aften Pennings. Aften is a senior at Stickney High School, and was one of Central Electric's participants in the 2015 NRECA Youth Tour. Aften was also selected to represent South Dakota on the NRECA Youth Leadership Council. Aften spoke about her experience on the Youth Tour and how it has impacted the way she thinks about her future.

The 2016 scholarship winners were also announced. Receiving the Basin Electric Scholarship was Miranda Henglefeldt of Alexandria. Receiving the Jay Headley Memorial Scholarships were Shelby Riggs of Mitchell and Reed Pazour of Pukwana. The scholarships recognize the academic and community involvement of our area youth.

The participants of the 2016 NRECA Youth Tour are Kaitlyn Asmus of Mitchell, Stephanie Fauhlaber of Plankinton, Luke Mairose of Kimball, Abigail Hanson of Alexandria, Madalyn Hattervig of Carthage, and Jennifer Luczak of Letcher. Congratulations to each of these individuals.

Dwight Keegel, Central Electric's Lead Electrician, was recognized for serving the cooperative membership for 25 years. If you know Dwight, please congratulate him for serving our members so well over the past 25 years.

## Spring Safety

As we move into the month of May and we get busy wrapping up the calving season and start focusing on spring planting and construction projects, I encourage you to take time to consider your personal safety and the safety of others around you.

Please take note of overhead electrical lines when moving equipment around the yard or when driving through the field approach. Host a short safety meeting with everyone who will be operating large equipment to discuss all types of clearance issues. Take the time to verify that the overhead electrical lines are still providing the same amount of clearance that was there last fall.

Consider both overhead and underground electrical wires when planning a new building, grain storage, or even when installing a new fence or planting trees. Remember to call 811 to verify where buried cables may be located and maintain a safe distance between your equipment and any high voltage wires.

Let's make this a safe spring for everyone. Please call our office if you have any questions or need any additional help.

**THANK YOU**  
to all who attended the  
**Central Electric Annual Meeting**





# Central Electric Cooperative Connections

Co-op News

(USPS 018-963)

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Mission Statement  
Providing Reliable Energy and  
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This institution is an equal  
opportunity provider and  
employer.

## Take the Pledge!

Visit the Co-ops Vote web site, [www.vote.coop](http://www.vote.coop),  
and pledge to cast your vote in 2016.



The web site will give you information on your elected officials and candidates, the voter registration process, election dates and locations, and background about eight key co-op issues we want our elected leaders to understand: rural broadband access, hiring and honoring veterans, low-income energy assistance, cybersecurity, water regulation, rural health care access, affordable and reliable energy, and renewable energy.

In the 2012 national elections, voter turnout dropped overall, but the decline in rural counties was 18 percent—twice that of the nation as a whole. Co-ops Vote is non-partisan program developed to ensure coop members take the opportunity to vote and have access to information on key issues.

Our office will be closed  
Monday, May 30th  
in honor of Memorial Day.

## D.I.Y. Electrical Safety

Each year, thousands of people in the United States are critically injured and electrocuted as a result of electrical fires, accidents or electrocution in their own homes.

The current economic downturn has inspired more homeowners to tackle do-it-yourself projects than ever before. Faced with declining home values and aging properties, homeowners may choose not to pay for the services of a licensed electrician. However, most do not have the training or experience needed to safely perform home electrical work, increasing the risk of immediate injuries and electrocutions and potentially introducing new dangers into the home. Working with electricity requires thorough planning and extreme care and cutting corners can be a costly mistake.

### D.I.Y. Facts and Statistics

- There are an estimated average of 70 electrocution fatalities associated with consumer products per year.
- The most recent data from the U.S. Consumer Product Safety Commission shows that there are nearly 400 electrocutions in the United States each year.
- Approximately 15 percent of electrocutions are related to consumer products. Wiring hazards, including damaged or exposed wiring and household wiring, accounted for nearly 14 percent of these deaths.
- An estimated 360,900 residential building fires are reported to United States fire departments each year and caused an estimated 2,495 deaths, 13,250 injuries and \$7 billion in property losses. The leading cause of the largest fires was electrical malfunction.
- There are about 37,000 nail-gun injuries each year; a 200 percent increase since 1991.
- Electrical failure accounted for 89 percent of electrical fires in residential buildings from 2003-2005.

### D.I.Y. Safety Tips

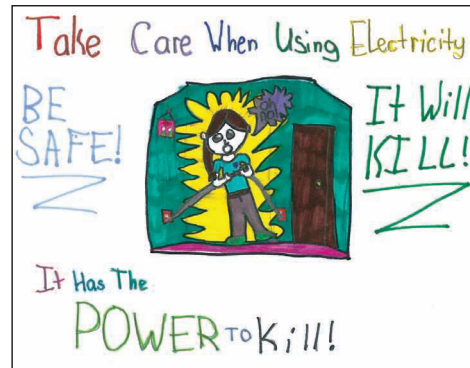
ESFI strongly recommends hiring a qualified, licensed electrician to perform any electrical work in your home. However, if you do decide to do-it-yourself, consider the following safety tips before undertaking any home electrical project:

- Make an effort to learn about your home electrical system so that you can safely navigate and maintain it.
- Never attempt a project that is beyond your skill level. Knowing when to call a professional may help prevent electrical fires, injuries and fatalities.
- Always turn off the power to the circuit that you plan to work on by switching off the circuit breaker in the main service panel.
- Be sure to unplug any appliance before working on it.
- Test the wires before you touch them to make sure that the power has been turned off.
- Never touch plumbing or gas pipes when performing a do-it-yourself electrical project.

Source: *esfi.org*

## Kids' Corner Safety Poster

**"Take care when using electricity – it has the power to kill!"**



**Evelyn Fritz, 10 years old**  
*Evelyn is the daughter of Jamie and Kristi Fritz, New Effington, S.D. They are members of Traverse Electric, Wheaton, Minn.*

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.

**I AM A CO-OP VOTER**

**CO-OPS VOTE**

A PROGRAM OF AMERICA'S ELECTRIC COOPERATIVES

JOIN HERE: [WWW.VOTE.COOP](http://WWW.VOTE.COOP)

# Comforting Casseroles



## Mexican Spoon Bread Casserole

- |                             |                                 |
|-----------------------------|---------------------------------|
| 1-1/2 lbs. ground beef      | 1/2 c. sliced ripe olives       |
| 1 large onion, chopped      | <b>Cornbread Topping:</b>       |
| 1/4 c. chopped green pepper | 1-1/2 cups milk                 |
| 1 clove garlic, minced      | 1 cup cornmeal                  |
| 1 cup tomato sauce          | 1/2 tsp. salt                   |
| 1 can corn, undrained       | 3/4 cup shredded Cheddar cheese |
| 1-1/2 tsp. salt             | 2 eggs, beaten                  |
| 2 to 3 tsp. chili powder    |                                 |

Brown first 4 ingredients in a large skillet until onion is tender; drain. Stir in tomato sauce, corn, salt, chili powder and olives; heat to boiling. Reduce heat and simmer uncovered while preparing cornbread topping. For topping: Mix milk, cornmeal and salt in saucepan. Cook and stir over medium heat until mixture boils. Remove from heat and stir in Cheddar cheese and beaten eggs. Turn hot meat mixture into 2-1/2-quart dish and pour cornbread mixture on top. Bake uncovered at 375°F. for about 40 minutes.

**Carolyn K. Wickert, Baltic**

## Chicken Crescent Almondine Hot Dish

- |   |                                 |
|---|---------------------------------|
| 3 cups cooked and cubed chicken               | 1/2 cup chopped onion           |
| 1 can cream of chicken soup                   | 1/2 cup sour cream              |
| 1 (8 oz.) can sliced water chestnuts, drained | <b>Topping:</b>                 |
| 1 (4 oz.) can mushrooms, stems and pieces     | 1 (8 oz.) can crescent rolls    |
| 2/3 cup Hellman's mayonnaise                  | 2/3 cup shredded Cheddar cheese |
| 1/2 cup chopped celery                        | 1/2 cup slivered almonds        |
|   | 3 T. melted butter              |

Combine the first 8 ingredients in saucepan. Cook until hot and bubbly; pour into ungreased 9x13-inch pan. Separate rolls into long rectangles and place over chicken mixture. Combine remaining ingredients and spread over dough. Bake at 350°F. for 20 to 25 minutes.

**Nancy Noess, Mitchell**

## Chicken Noodle Hot Dish

- |   |                     |
|---|---------------------|
| 1 can each chicken noodle, cream of chicken and cream of celery soups | 1 onion, chopped    |
| 1 lb. ground beef, browned  | 1 T. soy sauce      |
|   | 2 cups water        |
|   | 1 cup uncooked rice |

Combine all ingredients in baking dish. Bake at 350°F. for 1 hour.

**Michele Hoffer, Brandon**

## Inside-Out Cabbage Rolls

- |                                 |   |
|---------------------------------|---|
| 1 lb. lean ground beef          | 1 (10 oz.) can diced tomatoes and green chilies |
| 1 large onion, chopped          | 1 (8 oz.) can pizza sauce                       |
| 1 large green pepper, chopped   | 1 cup cooked brown rice                         |
| 1 small head cabbage chopped    | 1/2 cup shredded reduced-fat Cheddar cheese     |
| 1 cup reduced sodium beef broth |   |

In a Dutch oven, cook beef, onion and green pepper over medium heat until meat is no longer pink; drain. Stir in the cabbage, broth, tomatoes and pizza sauce. Bring mixture to a boil. Reduce heat; cover and simmer for 20 to 25 minutes or until cabbage is tender; stirring occasionally. Stir in rice; heat through. Remove from heat. Sprinkle with cheese. Cover and let stand until cheese is melted. Makes 6 servings

*Nutritional Facts Per Serving: Calories 140, Total Fat 7g, Cholesterol 10mg, Sodium 330mg, Carbohydrates 13g, Dietary Fiber 2g, Protein 7g (3.8g from dairy), Calcium 15% Daily Value*

**Pictured, Cooperative Connections**

## Turkey and Dressing Casserole

- |                                       |                                       |
|---------------------------------------|---------------------------------------|
| 4 cups cubed cooked turkey or chicken | 1 (10 oz.) can cream of mushroom soup |
| 3 T. chicken broth                    | 1 (10 oz.) can golden mushroom soup   |
| 1 box stuffing mix, prepared          |                                       |
| 1 (4 oz.) can sliced mushrooms        |                                       |

Place cubed meat in a greased 9x13-inch baking dish. Moisten with chicken broth. Top with prepared stuffing mix. Add canned mushrooms, if desired. Mix soups and spread over casserole. Cover with greased foil and bake at 350°F. for 45 to 60 minutes. Can be prepared and frozen; adjust baking time.

**Charlotte Hoverstadt, Webster**

## Tuna Biscuit Casserole

- |   |   |
|---|---|
| 1 can Cheddar cheese soup               | 1 T. grated onion                         |
| 1/2 soup can milk                       | 1 T. parsley flakes, optional             |
| 1 can tuna, drained if using oil-packed | 1 pkg. or tube (10) refrigerated biscuits |

Mix soup and milk until smooth. Add tuna and break in chunks, then add onion and parsley flakes. Heat just to boiling. Put biscuits in ungreased pan (9x9 or 11x2 inch.) Pour heated mixture over top of biscuits. Bake uncovered at 350°F. for 25 minutes or until biscuits pop up through the sauce and are well browned.

**Elfrieda Postma, Sioux Falls**

*Please send your favorite dairy, dessert and salad recipes to your local electric cooperative (address found on Page 3). Each recipe printed will be entered into a drawing for a prize in June 2016. All entries must include your name, mailing address, telephone number and cooperative name.*



# Riggs Completes Journeyman Lineman Program

Cody Riggs, Lineman with the Mitchell crew, recently graduated from apprentice lineman to journeyman lineman.

Riggs successfully completed one of the most comprehensive training programs in the world for power line personnel. The Merchant Job Training and Safety Program is administered to line personnel in 38 states and is also under contract with National Rural Electric Cooperative Association (NRECA) International, Ltd.

In order to complete the journeyman program, one must complete 8,000 field hours, four years of detailed book work, and pass a final comprehensive exam. After four and a half years of work towards his certificate, Riggs says, "It's definitely a relief."

Riggs has been with Central Electric since February 2015. He previously worked with Highline Construction in Paynesville, MN, completed 1,000 hours part-time with Charles-Mix Electric, and completed 1,000 hours part-time with Central Electric.



**Operations Manager Brian Bultje presents Lineman Cody Riggs with his Journeyman Certificate.**

# Hayes Earns Scholar of the Week

Tristan Hayes was named the Touchstone Energy Scholar of the Week for the week of April 10-16, 2016.

Hayes is currently a senior at Kimball High School, and his parents are Lisa Troll and Chris Hayes. Hayes excels academically and holds a 4.07 GPA.

Hayes is also extremely involved outside of the classroom. Some of his commitments include student council, track, football, cross country, and choir. He is also involved with National Honor Society, Future Business Leaders of America (FBLA) and Hugh O'Brian Youth Leadership (HOBY).

Central Electric, a Touchstone Energy Cooperative,



**Pictured (left-right) is Middle School/High School Principal Erik Sommervold, Scholar of the Week Tristan Hayes, and Central Electric General Manager Ken Schlimgen at the Kimball School as Hayes received his scholarship.**

awarded a \$100 scholarship to Hayes. Central Electric Manager Ken Schlimgen and Manager of Member Services Patrick Soukup visited Kimball High School to recognize Hayes and present the financial award.

The Scholar of the Week scholarship was created by KSFY and Touchstone Energy Cooperatives to recognize outstanding students across the state who set an example of hard work and high academic standards. Area school principals

and faculty nominate students for this award, based on excellence in the classroom, service in the community and extracurricular participation. The KSFY staff makes weekly selections throughout the school year.

# Can You Locate These People?

These past members were mailed Capital Credit checks and the checks were returned to our office or were never cashed. If you know of a correct address or telephone number for these individuals, please contact our office at 605-996-7516 or 800-477-2892.

- |                         |                          |                    |                        |                         |
|-------------------------|--------------------------|--------------------|------------------------|-------------------------|
| Ashes, Severn           | Fogg, Alex               | King, Matt         | NW Bell Telephone      | Struble, Mark           |
| Austreim, John Jr       | Folkerts, Robert         | Kirkie, Brenda     | Olson, Craig           | Steely, Rufus           |
| Azure, Tammy            | Fowler, Gloria           | Koch, Jacob        | Olson, Henry L         | Sterrett, Dale C        |
| Backlund, Lucille       | Gebel, Eugene            | Koch, Richard L    | Olson, Robert          | Stevens, Ted            |
| Bails, Richard          | Gilchrist, John          | Kotten, Larry      | Parisien, Don          | Sedgwick, Hugh or       |
| Baker, Craig            | Glanzer, Jacob E         | Kranz, Scott A     | Pearson, Stanley       | Fraser Store            |
| Balding, Nadyne         | Gorath, Harold           | Kroger, John       | Pease, Rodney          | St John, Dean           |
| Balster, Ernest         | Gosmire, Randall         | Kruger, Lisa M     | Phoenix Environmental  | Surat, Curtis J         |
| Baysinger, Richard      | Greff, Larry             | Kruger, Troy       | Design                 | Sutton, Geo or Arlene   |
| Bissel, WM              | Grohs, Ronald            | Kruse, Adam        | Pickner, Earl or Deb   | Swanson, Donley or      |
| Boehnen Farms           | Gudahl, Esther           | Kuper, Vernon L    | Pitts, Ben             | Janice Swartz           |
| Boldt Construction      | Gudahl, Judith           | Lawler Budget Inn  | Pomani, Madeline       | Swanson, Sharon         |
| Borgheinck, Frank       | Handel, Raymond          | Lawrence, Phillips | Raesly, R H            | Terveen, Bert or Verona |
| Brech, Leon             | Harbert, Wendall B       | Leach, Lloyd       | Ramsey, Melissa        | Tirrel, Blaine          |
| Briggs, Floyd           | Harrison, Barbara        | Lee, Robert        | Rasmussen, Richard     | Titze, Clarence         |
| Brosnan, John W         | Hattervig, Julaine       | Lennick, Elmer     | Reierson Bros          | Triebwasser, Roland     |
| Bruckman, Chuck         | Haugen, Teresa           | Leuning, Garry     | Reynolds, Dick         | Tripp, James            |
| Buehner, Gary           | Hauser, Robert E         | Lewis, Randy       | Rostyne, Elda          | Truman, Monny           |
| Burns, Lester           | Heinert, H J             | Linn, Ronnie       | Roth, Ronnie L         | Trumm, Jay              |
| Burrer, Elmer           | Hemming, Susan           | Loudenburg, Harvey | Salter, Bill           | Vanlaceken, Rodney      |
| Butterfield, Karen      | Hepner, Thomas           | Lunn, Donald B     | Sazue, Wanda           | Vanoverschelde, Darrell |
| Bryon-Reed Company      | Hermans Farm Store       | Martin, William S  | Schaefer, Arnold Jr or | Vanoverschelde,         |
| Carlson, Leland or Enid | Hongslo, Randy           | Masker, Don        | Pamela Carmody         | Leonard                 |
| Carlson, Ronald         | Horsley, Darrel          | Mathies, Aleverta  | Schoenfelder, Clete    | Wagner, Agnes           |
| Carmichael, John J      | Hrdina Brothers          | Mathis, Alvin G    | Schoenfelder, Robert J | Walz, Kenneth           |
| Champ, Dennis           | Hubbard, Phillip or Paul | McDougal, Janie    | Scheer, Bryan          | Walz, Sam               |
| Collins, Charles        | Hudson, Amanda           | McGhee, Kelly      | Schortzmann,           | Ward, David             |
| Conner-Bachmeier,       | Impecoven, Kevin         | McGregor, WM       | Christopher            | Weaver, Arent           |
| John                    | Jacoway, Bruce           | Meagher, Donald D  | Scott, Lee or Irene    | Weise, Charles P        |
| Cook, Judith A          | Jandreau, Rebecca C      | Medicine Crow,     | Seeking Land, Lorie    | Wenz, Sheldon           |
| Danielson, Darrell      | Janzing, Charmaine       | Antoine Sr         | Sherman, Gary          | Wesley, Lewis           |
| Drake, Eliner or        | Janzing, Raymond         | Melchert, Dwayne   | Shoemaker, Roy         | Whipple, William        |
| Patricia Gibbs          | Jenks, Fern              | Mentele, Roger or  | Shoulders, Pauline     | White, Gerald           |
| Duimstra, John          | Jones, Charles           | Shirley Freese     | Sigmund, David         | White Mouse, Vonnie     |
| Eilers, George          | Jones, Clemet            | Meyers, Donald W   | Smith, Steve           | Whitledge, Gino or      |
| Endres, James           | Jones, Fred              | Miller, Carl B Sr  | Songer, Keith          | Paula                   |
| Eshleman, Louella       | Johnson, Debbie          | Murphy, Lucille    | Sonne, Harlan          | Wieczorek, Dean         |
| Espedal, Marvin         | Johnson, Jesse           | MT Systems Inc     | South, Ron             | Wieczorek, Don          |
| Estabrook, Dennis       | Johnson, Randy           | Namoni Mani, Jean  | Spelbring, Dale or     | Wieczorek, Herbert      |
| Fallis, Jerilyn         | Johnson, William E       | Nielson, Don       | Shirley                | Williamson, Keith       |
| Fallis, Seanna          | Jordan, Randy            | Niewenhuis, Riley  | Spezzano, Joseph       | Wittstruck, Donn        |
| Fawcett, Linetta        | Kappel, Paul             | Nopens, Earl       | Sprang, Scott          | Wolbrink, Steve         |
| Fergen, Joseph          | Kercher, Brooke          | Norwick, Donald    | Starr Family Trust     | Yougman, R C            |
| Falnderka, Steven       | Kieser, Kenneth          | Nutter, Dale       | Strable, Dean          | Zeman, Henry C          |



# A Prescription for Energy Savings

## Wall Drug Turns to Co-ops for Tips to Save

**W**HEN RICK HUSTEAD, CHAIRMAN OF THE WALL Drug Store in Wall, S.D., wanted to look at ways to cut the tourist destination's energy bill, he knew just who to call: his local Touchstone Energy® Cooperative, West River Electric Association in Wall.

Wall Drug has historically been one of WREA's largest using members, and easily the largest user in the eastern half of the co-op's territory which extends from Rapid City to the Badlands and north into southern Meade County.

"We're thrilled in Wall, S.D., to have WREA here, to have a major power company headquartered in a town of 800 is a big thing. When we have questions about our consumption and bill, we know who we're talking to," said Hustead.

The Hustead family started The Wall Drug Store in 1931 as a simple pharmacy by Ted and Dorothy Hustead, Rick's grandparents.

"They were slowly going broke in the Depression.

There was a constant drone of tourist cars going West on US16, which was a packed dirt road. Dorothy thought how hot and dusty travelers were," Rick explained.

The Husteads began advertising free ice water and once they could get the customers to stop then they could tempt them with purchasing items in the store and at the old fashioned soda fountain. The plan worked.

The attraction, which Hustead notes is America's No. 1 roadside attraction, which has grown from a single, 24 foot by 50 foot storefront pharmacy to encompass more than a square block, welcoming visitors from across the world to the prairie town year round. The store occupies 78,000 square feet on the street level. Storage areas extend below the store and above on a second story not open to the public.

And as a business owner, Hustead looks for ways to make the operation run more efficiently while still

By  
Brenda  
Kleinjan







**Left:** West River Electric Association’s Robert Raker, Willy Nohr and Adam Daigle inventory the more than 5,400 light bulbs used at Wall Drug. **Right:** Under the watchful gaze of one of the denizens of The Wall Drug Mall pedestrian area, Basin Electric Power Cooperative’s Chad Reisenauer uses an infrared camera to look for energy leaks. **Opposite Page:** WREA’s Veronica Kusser and BEPC’s Reisenauer review the steps for the energy audit with Rick Husted, Chairman of The Wall Drug Store. **Cover:** Using a meter, Reisenauer measures the lumens emitted from one of the 3,100 light fixtures at Wall Drug.

giving their guests the best experience possible. (By one estimate, more than two million people will visit Wall Drug each year.)

“We want to be continually improving,” said Husted. “In visiting with Veronica (Kusser) at WREA about our bill, I asked if we could have an energy audit, thinking there must be things we can do to improve our usage and consumption. We had started doing what we could to switch to LED lighting.”

Kusser and her co-workers enlisted the assistance of Chad Reisenauer, a certified energy manager at Basin Electric Power Coopera-

tive, in Bismarck, N.D. The group spent a day inventorying and assessing Wall Drug’s energy usage.

One thing that was immediately apparent was that Wall Drug has a lot of lights. A lot of lights. More than 5,400 bulbs housed in 3,100 fixtures throughout all levels of the business. Combined, the six different types of bulbs used – if turned on all at once – would account for more than 125 kilowatts of load. So, Husted’s steps to convert to LED lighting were certainly a good start.

Reisenauer’s recommendations included continuing to convert the lights to more efficient bulbs, examining the amount of lumens of light needed for different tasks and sizing the lighting appropriately (in some instances, spaces may be over lit and fixtures can be removed, in other areas more lights may be needed.)

While Resinaer’s recommendation are unique to Wall Drug, the basic concepts apply to most all homes and businesses: look for the things that use the most energy and see how they can become more efficient. For appliances, make sure that gaskets are tight and filters are clean and consider upgrading the appliance to an EnergyStar® model. Often times, the energy saved can cover the costs of the upgrade in a short timeframe.

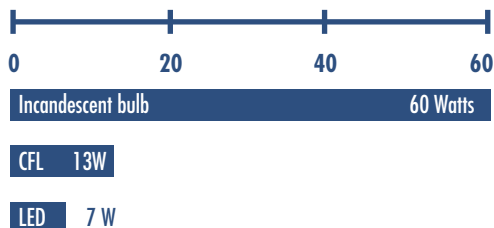
# Shining a Light on Energy Savings

**Traditional lighting** can amount to 11 percent of your monthly energy use. Energy saving light bulbs can slice lighting costs by 75 percent.

- Replace outdoor lighting with its equivalent outdoor-rated LED bulb. LEDs work well in cold weather.
- Use fixtures with electronic ballasts and T-8, 32 Watt fluorescent lamps.
- Use outdoor security lights with a photocell and/or a motion sensor.
- Turn off unnecessary lighting.

A lumen is a unit used for the measurement of visible light. A traditional 60 Watt light bulb produces 800 lumens. See the chart below to see how many Watts other bulbs use to produce the same amount of light.

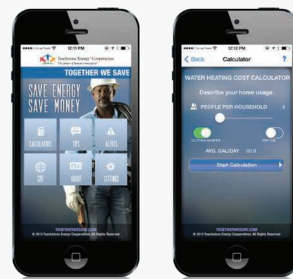
## WATT USAGE 800 LUMENS



Source: Touchstone Energy® Cooperatives 101 Easy Ways to Save Energy and Money  
For more tips and helpful videos, go to: <http://www.touchstoneenergy.com/together-we-save/energy-saving-tips/>

SMARTPHONE. SMARTHOME.

## SAVE ENERGY SAVE MONEY APP

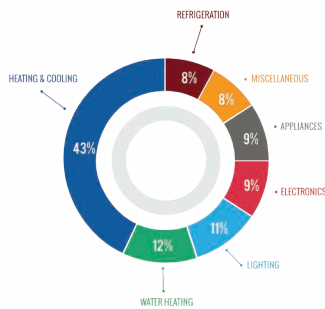


CALCULATE HOW YOU CAN SAVE ENERGY AROUND THE HOME. SEARCH “TOGETHERWESAVE” IN YOUR SMARTPHONE’S APP STORE.



### HOME ENERGY USE

WHERE DOES YOUR ENERGY GO?



Home energy use is different for everyone and hinges on several factors, including size of home, members in your household, your location and preferences. Knowing how your energy is divided will help you prioritize your energy saving habits.

Source: U.S. Energy Information Administration [www.EIA.gov](http://www.EIA.gov)

# Central Electric's Delegation 2016 NRECA Youth Tour



**Stephanie Faulhaber attends Plankinton High School and will represent Aurora County.**



**Luke Mairose attends Kimball High School and will represent Brule County.**



**Kaitlyn Asmus attends Mitchell High School and will represent Davison County.**

Each year, Central Electric sponsors up to eight high school junior students (one from each county/district) to participate in the Rural Electric Youth Tour. The Rural Electric Youth Tour consists of an educational week long trip to Washington D.C. to meet students from other states, meet congressional leaders, learn about cooperatives and to tour the historic sites. South Dakota's students will team up with more than 1,400 teens from around the country.

Past participants have described this as "a once-in-a-lifetime" experience. Why does Central Electric offer this experience to our area youth? Because we realize it is more vital than ever that today's young people understand and support the rural electrification program, for they are tomorrow's leaders and consumers.

The tour is funded by all the rural electric cooperatives that sponsor students in the weeklong event.

Among the sites that are part of the tour are the Lincoln Memorial, Washington National Cathedral, the White House, Air and Space Museum, Washington Monument, U.S. Capitol, Ford's Theater, the Kennedy Center, Arlington National Cemetery, the Tomb of the Unknown Soldier, the FDR Memorial, the Smithsonian, Iwo Jima Statue, Vietnam Veterans Memorial, the Korean War Memorial, Mount Vernon and the National Archives.

Students will also have the opportunity to ride the Metro – the city subway system – and take a boat cruise on the Potomac River.

This year, Central Electric received qualifying applications from students representing six out of eight county/districts.

The week long trip will be held on June 10-17, 2016.



**Abigail Hanson attends Hanson High School and will represent Hanson County.**



**Madalyn Hattervig attends Howard High School and will represent Miner County.**



**Jennifer Luczak attends Mitchell High School and will represent Sanborn County.**





# Scholarship Winners Selected



**Miranda Henglefeld of Alexandria was selected as the recipient of the \$1,000 Basin Electric Power Cooperative Scholarship.**

For the past 24 years, Central Electric has had the opportunity to select an area student to receive a \$1,000 academic scholarship. The scholarship is funded by our wholesale electric power supplier, Basin Electric Power Cooperative of Bismarck, ND.

To be eligible for the scholarship, the applicant must be the dependent of a Central Electric member and attend a four year university or a two year technical school in the 2016-2017 school year. The recipient is selected based upon the student's grade point average, SAT or ACT test scores, community service, and a short essay.

This year's recipient is Miranda Henglefeld of Alexandria. Miranda is the daughter of Don and Jody Henglefeld. Miranda is currently a senior at Hanson High School and represented Central Electric in the 2015 Youth Tour. She plans to attend Mount Marty College or Augustana University to obtain a degree in English and secondary education.

"Miranda is an exceptional student in the classroom. She works hard and is determined to succeed in everything that she is involved in," states Roxane Alley, a high school teacher and advisor at Hanson High school.



**Shelby Riggs of Mitchell was selected as a recipient of a \$1,000 Jay Headley Memorial Scholarship.**

Shelby Riggs was selected as one of two recipients to receive a \$1,000 Jay Headley Memorial Scholarship. The scholarship is funded by the family of the late Jay Headley.

To be eligible for the scholarship, the applicant must be the dependent of a Central Electric member, attend a four year university or a two year technical school and pursue a degree in an agricultural related field.

Shelby is a senior at Mitchell High School and is the daughter of Kevin and Becky Riggs. Shelby participates in student council, FFA, FBLA, 4-H, show choir, track, and is active in agriculture advocacy. She also has been in speech/debate, served as a legislative house page, and represented Central Electric in the 2015 Youth Tour.

Shelby plans to attend the University of Nebraska Lincoln this fall to pursue a degree in Ag Economics and Animal Science.

"Shelby is a remarkable young woman with outstanding credentials," says Kathy Mills, Mitchell High School Counselor. "She complements these assets with integrity and reliability."



**Reed Pazour of Pukwana was selected as a recipient of a \$1,000 Jay Headley Memorial Scholarship.**

This year marks the 15th year of the Jay Headley Memorial Scholarship. Originally, one scholarship was given annually with two scholarships being awarded since 2011.

Reed Pazour has been selected as the second recipient of a \$1,000 Jay Headley Memorial Scholarship. Reed is the son of Steven and Rita Pazour.

Reed is from Pukwana and earned his education at home, taught by his parents. He is an active member of his church and community. Reed has participated in ministry teams and volunteered for roles in the church including lector, server, groundskeeper, and the choir. He takes pride in his responsibility as a hired hand on the family operation and has also helped neighbors with tasks when needed.

Reed plans to obtain an associate's degree in Ag Technology with minors in Animal Science, Agronomy, and Ag Business.

"I find Reed to be a very responsible young man, self-assured and always willing to help out," says Sally Engler, Director of Religious Education at St. James Catholic Church.

# Hot Water on the Grid

## Can Your Hot Water Be a Battery?

**M**OST PEOPLE THINK OF THEIR WATER HEATER AS a device designed solely for heating bath water or helping to wash a sink full of dishes. But electric water heaters can provide some of the most rapidly responding, flexible, scalable and cost-effective energy storage available.

By adding bidirectional control to electric resistance water heaters, GIWHs enable a utility or third-party aggregator to quickly and repeatedly turn the devices off and on. Bidirectional control is a much more powerful tool than standard direct load control, which only allows devices to be turned off, because it effectively turns the water heater into a battery. Traditional batteries supply power when generation is low and absorb power when generation is high. In this way, they help modulate the supply of electricity to follow the load. GIWHs can't supply electricity, but they provide exactly the same functionality by reversing this equation: They can modulate the load in order to follow generation. In times of overgeneration, fleets of water heaters can be switched on to absorb excess power, and in times of undergeneration, they can be switched off to shed load and redistribute the existing electricity on the grid. Thus, aggregated GIWHs can act as virtual power plants to quickly and effectively control the amount of power on the grid. Moreover, these fleets are completely scalable and can perform this functionality within seconds.

### Benefits To The Utility

GIWHs enable the utility or aggregator to shift loads, perform demand response, conserve revenue via the arbitrage of wholesale electricity, generate revenue via ancillary services, and keep the grid stabilized during unexpected events.

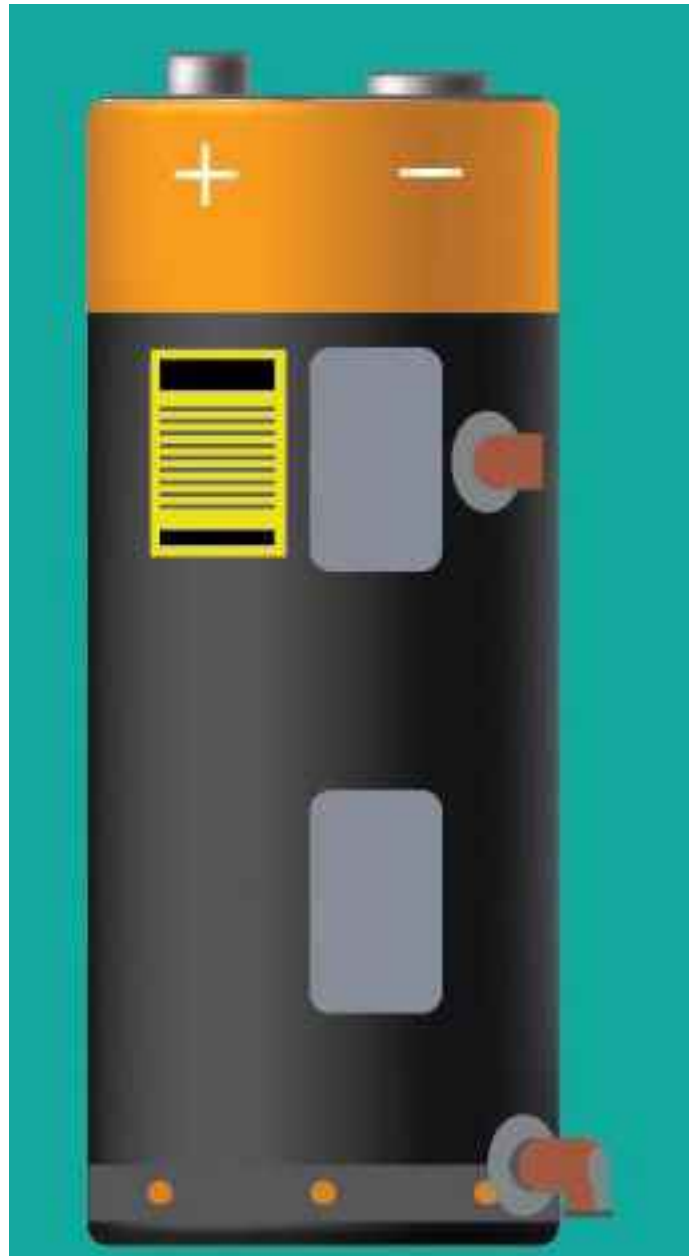
**Load shifting and traditional demand response.** In addition to traditional demand response, which sheds loads in times of peak demand, GIWHs

can be used to shift loads and perform intelligent load control. Pre- or postcharging of GIWHs around peak times and smaller spikes throughout the day can smooth the load curve while maintaining customers' supply of hot water. Instead of simply shedding the peak load, the energy consumption is redistributed to times of lesser demand

**Arbitrage of wholesale electricity.** Electricity

By  
Thomas Kirk and  
Brian Sloboda

Advanced community storage strategies employ electric water heaters to help electric co-ops to beat peak prices and save members money. (Illustration by NRECA)





providers can charge GIWHs when the price of energy is low and discharge them when the price is high, saving utilities and their customers money. This strategy can be especially useful for cooperatives and municipal utilities, where the savings can easily be passed along directly to customers.

**Revenue from ancillary services.** Utilities can also use GIWHs for frequency regulation or other services. Frequency regulation – or just regulation – is the second-by-second matching of generation to the load. Depending on the market, there can be significant revenue potential from regulation.

Furthermore, the need for regulation will only increase as more intermittent renewables are added to the grid. Solar and wind power, for example, inherently fluctuate with the availability of sun and wind, causing generation to spike and dip unexpectedly. Regulation is required to smooth these fluctuations and keep generation matched to the load. Not many resources are flexible enough to provide this service, but energy storage can do it very well.

The monetary value of frequency regulation depends on the transmission organization that monitors and controls the delivery of high-voltage electricity on the grid. Regional transmission organizations (RTOs) cover large interstate areas, and independent system operators (ISOs) cover smaller geographical areas.

Heat pump water heaters (HPWHs) can't provide frequency regulation nearly as well as electric resistance water heaters can. Although they're a great energy-efficiency technology and are gaining in market share due to efforts by the DOE and Energy Star, HPWHs can't be cycled off and on nearly as quickly as electric resistance water heaters can. They also don't draw as much power as electric resistance water heaters. As such, the revenue potential from regulating HPWHs is only one-eighth the revenue of electric resistance water heaters.

**Grid stabilization.** Perhaps one of the most valuable services that GIWHs provide is the ability to respond to grid stabilization events within seconds. If a transformer trips or another unexpected event occurs, GIWHs allow the utility or aggregator to shed or increase load within seconds.

Additional benefits and implications. Not all locations on the grid are created equal. GIWHs are more

valuable to distribution-constrained areas than to areas with excess distribution resources because they can reduce peak demand, potentially allowing the utility to defer distribution upgrades.

For territories that have plentiful renewable energy resources, utilities or aggregators can consider a renewable storage water heater (RSWH). RSWH systems use a dedicated auxiliary thermal storage tank (or tanks) to capture low-cost or no-cost excess renewable electricity. The auxiliary tank sits next to the original hot water tank and supplies the renewably generated hot water when it's available. The tank uses a mixing valve to dilute the hot water to reduce temperatures to standard domestic hot water (DHW) levels before delivering the water to the customer.

## What's Happening With GIWHs Now?

Great River Energy, a generation and transmission company in Minnesota, currently controls tens of thousands of large-capacity water heaters for arbitrage benefits to its customers. The co-op charges the GIWHs at night, when the wholesale market price for electricity is low, saving its customers money while providing the same amenity. Dairyland Power Cooperative, another generation and transmission company in Wisconsin, also has a large fleet of water heaters it uses for arbitrage.

# Community Storage Gives Co-ops Flexibility

By Cathy Cash –ECT.coop

**Energy storage—the holy grail** of the electric power industry—that will save consumers money and give electric cooperatives new flexibility might be as close as your water heater.

So says new research from The Brattle Group, a global economic consulting firm.

NRECA, the Natural Resources Defense Council (NRDC), Great River Energy, and the Peak Load Management Alliance commissioned the study, "The Hidden Battery," to launch a "community storage" initiative to aggregate battery-like features of appliances.

Electric water heaters rank third-largest in residential electricity consumption, behind space cooling and lighting, according to the research released in February. "The magnitude of this relatively untapped resource is significant."

Advanced community storage strategies can equip electric co-ops to beat peak prices and save their members as much as \$200 a year—enough to pay for a grid-enabled water heater within five winters, says the study. Further, these water heaters can interact with the electric grid to help with balancing and frequency response.

Great River Energy controls more than 110,000 residential water heaters that can store more than 1 gigawatt-hour of electricity. Between 11 p.m. and 7 a.m., 65,000 electric thermal water heaters mass enough hot water for an entire day; 45,000 water heaters are used to shave peak demand.

"We believe there's a battery hidden in basements all across our service territory," says Gary Connett, director of member services at the Maple Grove, Minn., G&T.

Community storage also is an important tool for meeting Minnesota's "25 percent by 2025" renewable energy standard that is resulting in more variable generation resources.

"When the wind is blowing or the sun is shining, large-capacity water heaters can be enabled to make immediate use of that energy to heat water to high temperatures," Connett says. "Water heaters can be shut down when renewables are scarce and wholesale costs are high."

NRECA worked closely with NRDC in 2015 to achieve federal law that preserves the production of large grid-enabled water heaters that 250 electric co-ops already rely on for energy savings programs.

**Editor's Note:** South Dakota electric cooperatives, especially those in eastern South Dakota and western Minnesota, have a long history of using energy savings from water heating. Contact your local electric cooperative for more information.

# High Voltage Demonstration

Workers in the power line industry face dangerous situations on a daily basis. Therefore, continued education on safety is necessary for workers of all levels of experience.

On Tuesday, March 15th, Central Electric hosted approximately 35 area first responders at the Mitchell office for the high voltage demonstration. Mitchell Area Foreman Tim Harrington and Journeyman Lineman Dustin Weier performed the demo. They were able to demonstrate to first responders the dangers when responding on a scene where there is energized line or equipment and how to do their jobs safely in this environment.

Harrington and Weier also visited Mitchell Technical Institute on Thursday, March 17th for the high voltage demonstration. They presented to approximately 90 students in MTI's Power Line program.

The goal of the high voltage demo is to educate on the dangers of working around high voltage equipment. The material on the high voltage trailer represents normal distribution voltage that linemen see every day. The students in the Power Line program handle real-world equipment and recreate real situations; however, the training equipment is not energized. The demo allowed students to see an energized high-voltage arch in a safe, controlled environment.

Some of the items used included grapefruit, hot dogs,

and fishing line. Harrington and Weier demonstrated the damaging effects when these objects come into contact with the high voltage equipment.

Central Electric Cooperative has presented the high voltage demo for numerous years. The high voltage trailer was made available by donations from numerous vendors who support safety and education in the power line industry.



**Above: Foreman Tim Harrington and Lineman Dustin Weier display the effects of high voltage conductivity through a grapefruit at MTI.**

**Below: Weier produces a high voltage arch using a ground jumper between energized line.**





# SIGN UP FOR BUS TOUR 2016



Are you a Central Electric Cooperative member looking for a great three day break from it all? Want to know where your electricity really comes from? Heard about the games, prizes and movies while on a bus to North Dakota? Well it's not too late to participate in the 2016 Basin Electric Tour.

This is a great opportunity to tour the Oahe Dam, Basin Electric and a working coal mine at Beulah, ND. It is open to members of Central Electric Cooperative for a small fee. For just \$25 per person, you will receive round trip transportation, a two night stay in Bismarck, ND and meals.

Members who have never participated in Central Electric's bus tour will be given first priority to participate in 2016.

**For just \$25 per person, you will receive round trip transportation, a two night stay in Bismarck, ND and meals.**

Registrations for first-time participants will be accepted until June 1st or until the bus is filled. After June 1st, seats will be filled with members who previously participated in the bus tour. They will be selected based on how many years have passed since their participation.

Each member is limited to two seats on the bus tour and all participants must be at least 18 years of age.

If you are interested in participating in the tour please give Patrick Soukup a call at 605-996-7516 or 1-800-477-2892 or find the application at [www.centralelec.coop](http://www.centralelec.coop). You will

be asked to complete and return the application with your \$25 per person fee.

## Regional Dateline

### April 23

RiverRat Marathon, Riverside Park, Yankton, SD  
605-660-9483  
www.riverratmarathon.com

### April 23

Jeff Dunham: Perfectly Unbalanced Tour  
Sioux Falls, SD, 605-367-7288

### April 23-24

Quilt Show, Swiftel Center  
Brookings, SD, 605-690-3246

### April 24

Jeff Dunham: Perfectly Unbalanced Tour  
Rapid City, SD, 800-468-6463

### April 30-May 1

Annual Art Show  
Chamber of Commerce  
Pierre, SD, 605-567-3562  
dan46@gwtc.net

### May 20

11th Annual Custer Stampede  
Buffalo Art Auction Unveiling  
Custer, SD, 605-673-2244

### May 21

Red Rock Ribfest  
Rowena, SD, 605-254-6367  
mitch@snortzbbq.com

### May 26

Purses with a Purpose  
Sioux Falls, SD, 605-271-9703

### May 27-October 10

Legends in Light® Laser Light Show, Nightly, Crazy Horse Memorial, Crazy Horse, SD



PHOTO COURTESY OF KRISTI BUXCEL BARNES

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.

## Events of Special Note

### April 30

Fourth Annual Festival of Tables, Senior Community Center, 10:30 a.m., \$10 ticket  
Wessington Springs, SD  
Contact Linda Burg at 605-539-1373, Marilyn Robbins at 605-539-9552 or Abbie Younie at 605-539-9377

### May 27

Foothills Rodeo Queen Contest, Lil' Miss and Mr. Pageant, Horsemanship at 1 p.m., Jerauld County 4-H Rodeo Grounds, Speeches and interviews to follow at Ag Building, Wessington Springs

### May 28-29

14th Annual SDRA Foothills Rodeo, 6 p.m. on Saturday 2 p.m. on Sunday, Jerauld County 4H Rodeo Grounds  
Wessington Springs, SD

### June 1-4

South Dakota Senior Games  
Rapid City, SD, Contact Kristi Lintz at 605-394-4168

### June 3-4

Howard Headers Car Show and Cruise, Howard, SD  
605-203-1086

### June 3-4

South Dakota Senior Games  
Sioux Falls, SD, Contact Scott Juhnke at 605-367-8222

### June 3-5

Wheel Jam, Huron, SD  
605-353-7354

### June 3-5

Black Hills Quilters Guild Quilt Show and Sale  
Rushmore Plaza Civic Center  
Rapid City, SD  
info@bhquilters.org  
www.bhquilters.org

### June 4-5

Spring Volksmarch at Crazy Horse Memorial  
Crazy Horse, SD, 605-673-4681

### June 10-11

Two Rivers Exposition  
Expo Center, Fort Pierre, SD  
605-224-8686

### June 14

Seventh Annual Ag Women's Day, First Lutheran Church Activity Center, Brookings, SD  
605-692-8003 Ext. 2

### June 17-18

Prairie Hills Art Show, 7 to 9 p.m. on Friday, Noon to 4 p.m. on Saturday  
Wessington Springs, SD  
Contact Wendy Bergeleen  
605-539-1963

### June 24

"Hemmings Motor News Great Race" Lunch Stop  
Chamberlain-Oacoma, SD  
www.greatrace.com

### June 29

Jerauld/Buffalo County 4-H Horse Show, 9:30 a.m. to 3:30 p.m., 4-H Rodeo Grounds, Wessington Springs