



# Volts and Jolts

Published monthly for the members of  
**RED LAKE ELECTRIC COOPERATIVE, Inc.**

*One of the Minnkota Power Systems*

**SERVING THE FOUR-COUNTY AREA OF MARSHALL, PENNINGTON, RED LAKE AND POLK**  
*and a portion of the lands of the Red Lake Band of Chippewa*

VOL. 49 – NO. 10

RED LAKE FALLS (RED LAKE COUNTY), MINNESOTA 56750

JULY 2014

## Cooperative members enlightened by power plant tour

On June 25 and 26, 50 members of Red Lake Electric Cooperative and Clearwater-Polk Electric Cooperative participated in a tour that included visiting the Milton R. Young Station near Center, ND.

The tour started with a stop at Minnkota Power Cooperative's headquarters in Grand Forks, ND. Tour participants viewed the diesel generators that are on site in Grand Forks and visited Minnkota Power's control center. Control center staff monitor Minnkota Power's transmission lines and load levels throughout NW Minnesota and NE North Dakota. The transmission of signals for the control of off-peak electric heat is done from Minnkota Power's control center.

In addition, the receiving of calls and dispatching of crews for Red Lake Electric's after-hour service is handled at Minnkota Power's control center.

The second stop on the first day included a visit of the Lewis and Clark Interpretive Center near Washburn, ND.



**Pictured are members of Red Lake Electric Cooperative, Red Lake Falls and Clearwater-Polk Electric Cooperative, Bagley, who participated in the power plant tour held June 25 and 26.**

include an 8200 Bucyrus electric dragline with a 77 cubic yard bucket and a 757 Page electric dragline with a 70 cubic yard bucket.

Coal is hauled to the Young Station with six CH180 Kress unibody diesel trucks. The trucks have a load capacity of 180 tons. Additional equipment includes D11 Caterpillar track dozers and 992 Caterpillar front end loaders.

Mother nature was very cooperative allowing an excellent visit/tour of the open-pit lignite coal mines and the 8200 Bucyrus dragline.

Members of Red Lake Electric who participated in the tour were: Roger and Karen Benitt, Middle River; Roger and LaVonne Schmitz, Newfolden; Everett and Delores Ault, Thief River Falls; Larry and Margie Ulrich, St. Hilaire; Darrow and Shirley Lundeen, Trail; Walt and Joyce Christensen, Crookston; Allen and Lois Remick, Ken and Linda Ulrich, Orville and Gen Knott, Cal and Sue Harmoning, Gary and Mavis Grove, Harvey Jr. and Inez Riendeau, LeRoy and Joyce Christensen, Jim and Theresa Schmitz, Jerry and Margaret Schindler, Emmanuel Nava and Kevin Reich, all of Red Lake Falls. Participants of Clearwater-Polk Electric included: Ron and Mary Ann Juve, Steve and Ruth Sundbom, Clearbrook; Curtis Syverson and Arlene Syverson and Wesley and Betty Lugar, Shevlin; Gene and Dianne Hegge; Fosston; Tony and Crystal Schmitz, Leroy Fontaine, Greg Spaulding, Dan Buell, all of Bagley; John Hellquist, Bemidji; Philip and Susann Malmstedt, Bluffton, SC.

Being able to see the process first hand gives participants a much better understanding and often a better appreciation of what is involved in the generation and transmission of electricity. It is a complex process to get energy from a coal field in SW North Dakota to an appliance in NW Minnesota.

## Brateng promoted to Member Services Manager

Kelli Brateng, accounting assistant at Red Lake Electric Cooperative, has been promoted to member services manager. Brateng will assume the responsibilities of Kevin Reich, who will soon retire from the Cooperative.

Brateng began her employment with the Cooperative in April of 2009. Since then she has been involved in many areas throughout the Cooperative.

In the beginning Brateng started her role at the Cooperative verifying the daily electronic meter readings, billing questions, monthly inventory and work order transitions. She began working with the Power Savers program at the time of the program's (3225001.05, Mary E. Carlson) inception in late 2009. In more recent years Brateng has been having the first conversations with members inquiring about new electric service installations or service upgrades.

Brateng and her husband, Andy, reside in rural Red Lake Falls with their children: Brayden 7; Addison 4 and Dru, 9 months.

Brateng had two great-grandfathers serve as directors of Red Lake Electric Cooperative. Joseph Ste. Marie served as the first board president (1938–1946) and Frederick Berberich served as board secretary (1938).



**Kelli Brateng, Member Services Manager**

The center has state-of-the-art exhibits and many artifacts concerning the Lewis and Clark Expedition from the early 1800's.

Tour participants also visited the replica of Fort Mandan. Fort Mandan was the Corps of Discovery's winter home from 1804-1805. During that winter Lewis and Clark interviewed members of the Mandan-Hidatsa villages to plot maps for the next phase of their journey to the Pacific Ocean.

The final destination of the first day was Seven Seas Hotel in Mandan, ND. Tour participants were treated (5813005.02, John H. Scheie III) to a delicious evening banquet, courtesy of Minnkota Power. The evening program consisted of a power point presentation on the role Minnkota Power plays in the generation and transmission of electricity for Red Lake Electric, Clearwater-Polk Electric and

nine other electric Cooperatives in NW Minnesota and NE North Dakota.

The second day of the trip included a tour of the Young Station. The station includes two coal-fired electric plants with a combined net generating capacity of 705,000 KW. Unit I began operation in 1970 with Unit II being completed in 1977. The Young Station consistently ranks as one of the lowest-cost, coal-fired electric generators in the United States.

The next segment of the tour included a visit to the open-pit lignite coal mines of BNI Coal. BNI has the contract to supply the lignite for the Young Station. Combined, the two electric generating plants consume approximately 4.5 million tons of lignite coal annually.

BNI has several very large pieces of equipment that are used in the lignite mining process. Equipment used for stripping the overburden

### In this month's Volts and Jolts

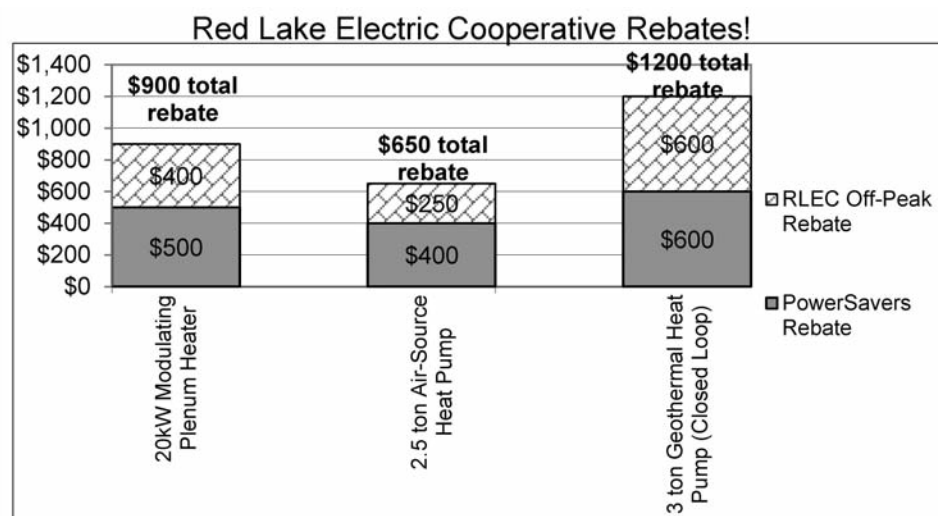
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Install off-peak electric heating equipment and receive off peak incentive

### QUICK TAKES

A look at some statistics from your Red Lake Electric Cooperative

Red Lake Electric Cooperative promotes the use of electric heat by offering rebates to customers who install new equipment that are qualifying products. PowerSavers HVAC rebates are based per unit with the exception of the ground source heat pump rebate which is based per ton. Red Lake Electric's Off-Peak incentive will receive \$20 per kW on electric heating equipment, \$100 per ton on air-source heat pumps and \$200 per ton on ground source heat pumps. Call us today at 1-800-245-6068 or 218-253-2168 if you have any questions on how to qualify for rebates



## Local 4-Hers receive awards from Red Lake Electric

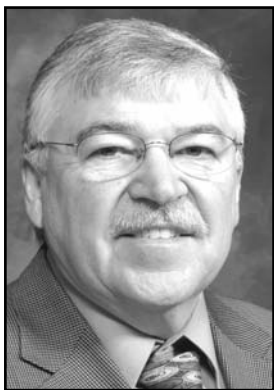
Each year, Red Lake Electric Cooperative provides cash awards for 4-H exhibitors at the Red Lake County Fair. Pictured are 4-Hers who received awards at the Red Lake County Fair held June 27 through 29

*Additional pictures appear on page 5.*



Winning an award for top horse at the 2014 Red Lake County Fair was Sarah Quick of the Happy-Go-Lucky 4-H Club. The award was sponsored by Red Lake Electric Cooperative. Not pictured and receiving an award from Red Lake Electric Cooperative at the Red Lake County Fair was Bailey Culkins of the Happy-Go-Lucky 4-H Club for top rabbit. *Courtesy of Oklee Herald*





# Manager's Comments

by Roger Johanneck



## Energy Efficiency Incentives Available

You won't have to look too hard at this month's issue of the *Volts & Jolts* to find information, incentives or encouragement promoting energy efficiency upgrades to your home or business. There is money to be saved for members of Red Lake Electric a few different ways: 1) Rebates offered through the Power Savers program 2) Rebates offered through Red Lake Electric and 3) energy savings from the use of more efficient equipment.

There may even be other ways that members can benefit if you qualify for federal tax credits on certain equipment upgrades; those incentives can be found by searching [www.energystar.gov](http://www.energystar.gov).

In addition to the information you will find in our newsletter this month, our website at [www.redlakeelectric.com](http://www.redlakeelectric.com) also contains information on available rebates, rebate forms and other tips we think you'll find helpful in your evaluation of

energy efficiency upgrades.

When most of us consider ways to reduce our energy needs and thus our monthly bills, it boils down to two different paths we can take: 1) conservation or 2) energy efficiency.

1) Conservation requires that we make some sort of life style change like shutting off lights in a room that is unoccupied, turning off the TV when no ones around to watch it, lowering our thermostat setting in winter or raising thermostat settings in summer. While reminding the family to turn lights and the TV off or adjusting the thermostat settings might not be the most popular way to conserve energy, it is an effective one. It requires no outlay of money to implement and it lowers the monthly energy bill.

2) The second approach is to buy equipment that uses less energy than the equipment you currently have. The hard part is the upfront investment of cash that you need to make. That is

where the rebate incentives offered through Red Lake Electric can help. Each evaluation and payback varies depending on the equipment you will be replacing. A rule of thumb for paybacks often used is if it pays for itself in ten years or less, it makes sense to upgrade.

Long-time members of the Cooperative will recall earlier rebate programs at Red Lake Electric. Various promotions have come and gone just as these rebates will have a sunset. Currently the Red Lake Electric rebate program is approved to run through the end of 2014.

I encourage you to take advantage of these incentives if your heating, cooling or lighting systems are in need of replacement or are just not up to today's efficiency standards.

There is a lengthy list of rebates and incentives for both our commercial and residential customers to consider. Call us if we can help in any way with your evaluation.

## Pole inspections to begin

Red Lake Electric Cooperative has contracted with RAM Utilities to test poles within the Cooperative's service area. The inspection will begin late July or early August.

Poles to be tested are on feeder 3 of the Highland substation which will include part of the following townships: Highland, Mayfield, Deer Park, and Hickory all in Pennington County. The test area will also be feeders 1 and 2 of the Terrebonne substation. This will include the townships of: Gervais, Emardville, Terrebonne and Poplar River all in Red Lake County and Grove Park and Badger in Polk County.

RAM Utilities will use ATV vehicles to travel from pole to pole. These vehicles will be equipped with Red Lake Electric signage to make them recognizable. If you have any questions concerning this pole inspection please call the Cooperative's office at 800-245-6068.



## For summer cooling, an air source heat pump gives you a lot more

All of us want to be comfortable for the least amount of money possible. When shopping for an air conditioning unit, an air source heat pump will be your best bet in the long run when comparing to a standard central air conditioner.

A central air unit will cool and dehumidify your home nicely and it will do so at around 100 percent efficiency. An air source heat pump will also cool and dehumidify your home. However, it will do so at about 200 percent efficiency. That means you will get twice the cooling for the same money. Even better, an air

source heat pump will work more than 3 months out of the year ... in fact, it can supply 50 percent or more of your heat during colder months, with up to 200 percent efficiency, saving you money on heating as well.

An air source heat pump is more expensive than a central air unit initially. However, the money you save will allow you to pay back your greater investment in a few years, while the savings continue year after year.

How does this work? An air source heat pump doesn't create heat or cool the air. It simply transfers heat from one

location to another. In the summer, it pulls heat and humidity from your home and runs it outside.

In the winter, it pulls heat from the outside air (yes, there's heat even in the winter) and brings it into the home. Members who have switched to this type (5010004.02, Kim Chervestad) of system often save hundreds of dollars each and every year over their traditional heating system/cooling system. Rebates make the payback even quicker.

Check out the illustrations, below, for greater detail of how a heat pump works.

### How Do Air-Source Heat Pumps Work?

By transferring heat between a house and outside air, these devices trim electricity use by as much as 30 percent to 40 percent in moderate climates.

#### WINTER

1 **Compressor**  
Increases refrigerant/freon pressure to accept the maximum heat from the air.

2 **Condenser**  
Coils move freon (and with it, hot or cold air) to or from outside air.

3 **Evaporator**  
Coils move freon (and with it, hot or cold air) to or from outside air.

4 **Air Handler**  
Fan blows air into a home's ducts.

5 **Reversing Valve**  
Switches the direction of the freon flow, changing the heat pump's output to hot or cold air (controlled by thermostat).

Source: NRECA

#### SUMMER

**GOPHER STATE ONE CALL**  
Call before digging! It's the law!  
**1-800-252-1166**



**Red Lake Electric Cooperative, Inc.**

*One of the Minnkota Power Systems*

## Things you should know about your electric service

### BILLINGS AND COLLECTION

You will receive your energy bill on or near the 10th of each month. Payment of your monthly energy bill is due on the 10th of the month. You may pay your bill in person at RLEC during office hours, use the 24-hour drive-up drop box located next to the RLEC office, by Auto Pay, by mail or by Bill4U on [www.redlakeelectric.com](http://www.redlakeelectric.com).

Payment must be in our office or in the mail as evidenced by the postmark on or by the 25th day of the month to avoid a late payment charge. A 1 1/2% monthly late payment charge will be computed on delinquent energy bills; the minimum late payment charge will be \$1.00.

If your payment is not received by the end of the month a notice of disconnection statement will be included in the message area on your following energy bill. The disconnection statement will give a final notice of when your electric service will be disconnected if the delinquent amount remains unpaid. If an employee is sent to disconnect your electric service a \$60 collection fee will be charged to your account, even if you pay the collector.

To have a disconnected service reconnected, all amounts owing including the \$60 reconnection fee and a security deposit must be paid. If the service must be reconnected after normal working hours a \$120 reconnection fee must be paid.

### BAD CHECKS

A \$15 charge will be levied each time a check is returned because of nonsufficient funds, account being closed or payment stopped along with any applicable bank charges.

### OUTAGES

In case your electricity goes out, please do the following:

1. Check your fuses or breakers at the yard pole or meter pedestal.
2. Call your neighbor to see if they are out of electricity also.
3. Call the RLEC office (218-253-2168 or 1-800-245-6068) during working hours or 218-253-2200 after hours.

### METER TESTS

RLEC has a schedule in place to have its meters periodically tested for accuracy. Results from these tests show that meters generally slow down with age; however, if you think that your meter is recording too much usage, RLEC will test it for accuracy. You must pay a test fee in advance of the test. If the meter test shows that the meter was inaccurate, the test fee will be refunded to you.

### STOPPED METERS

If you find your meter has stopped and you are using electricity, please contact the office immediately so we can replace it. Average consumption will be billed to the member for the time the meter was stopped so there is no advantage in not reporting a stopped meter.

### METER READINGS

An automated meter reading system is utilized to obtain monthly meter readings. Although the system is normally reliable, that is always a chance that the correct reading has not been transmitted to the office for billing. Customers should periodically read their meter and compare it to the reading on the billing statement. If the actual reading is not close to the billing statement reading, please call the office. Keep in mind that the reading on your bill is from the end of the month.

### GENERAL SERVICE RATES

Facilities charge variable \$27 to \$35 month  
April-December . . . . . 9.5¢ Kwh  
January-March . . . . . 9.9¢ Kwh  
Long term off peak . . . . . 5.5¢  
Short term off peak . . . . . 7.5¢  
Off-peak equipment charge, \$5.50/month per heat meter.  
Multiphase users add \$22/month cost of service charge.  
Standby, \$12/month (meter disconnected but the power line remains; standby is not available on services larger than 15 KVA transformer capacity).  
Security light: LED, \$8/month; High pressure sodium, \$8/month; mercury vapor, \$9/month; water heater flat credit, \$7/month (January-April billing).

### ELECTRIC HEAT EXEMPTION

This is to certify that the primary source of heat for my residence is electricity and I am eligible for the electric heating sales tax exemption as provided by Minnesota State Law. The primary source is the source that supplies more heat than any other source for the largest period of time during the heating season.

Date \_\_\_\_\_ Account number \_\_\_\_\_

Social Security Number \_\_\_\_\_

Signature \_\_\_\_\_

## Mission Statement

It is the mission of Red Lake Electric Cooperative to enhance the quality of life for people of our service area by consistently providing quality electric service and other valued services while holding our employees, our community and our environment in high regard.



**Red Lake Electric Cooperative, Inc.**

*One of the Minnkota Power Systems*

## RED LAKE ELECTRIC COOPERATIVE, Inc. VOLTS & JOLTS

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OUTAGE PHONE  
218-253-2200**

## NOTICE

Hidden within the text of the articles of this issue of the Volts & Jolts are the names and account numbers of some RLEC members. They will appear within the articles in parenthesis as such (9999999.99 Roger P. Member). If you find your name and account number, clip it out and send it with your next payment. You will be credited with \$5 on your electric bill.



# Recipe Corner



### Homemade Ice Cream

8 cups milk, divided  
6 eggs, separated  
3 cups sugar, divided  
3 tablespoons cornstarch  
1/4 teaspoon salt  
2 teaspoons vanilla extract  
2 cups whipping cream  
Maraschino cherries, optional  
In a large saucepan, bring 6 cups milk to a boil over medium heat. Remove from the heat and set aside. In a mixing bowl, beat egg yolks; add remaining milk and mix well. Combine 2 cups sugar, cornstarch and salt; gradually add to egg mixture. Add to hot milk and bring to a boil. Cook and stir for 2 minutes or until slightly thickened. Pour into a clean mixing bowl; set aside. Beat egg whites until soft peaks form; gradually add remaining sugar, beating well after each addition. Beat until stiff peaks form. Fold into warm milk mixture. Beat in vanilla and cream until well mixed. Refrigerate at least 5 hours or overnight. Freeze in an ice cream freezer according to manufacturer's directions. Garnish with cherries if desired.  
**Yield: 3-1/2 quarts**

### Gourmet Coleslaw

4 slices uncooked bacon  
1/4 cup chopped onion  
1 - 4-1/2 oz. can drained whole mushrooms  
1/3 cup wine vinegar  
1 tsp. sugar  
1/2 tsp. salt  
1/8 tsp. pepper  
1 - 16 oz. can baby lima beans, drained  
1 cup shredded red cabbage  
Fry bacon until crisp, drain and crumble. Reserve drippings. Sauté onion and mushrooms in bacon drippings until lightly browned. Stir in vinegar, sugar, salt and pepper. Simmer a few minutes. Pour over lima beans and cabbage, tossing lightly to mix. Sprinkle with crisp bacon bits. Serve at once.  
**Yield: 4-6 servings**

### Tangy Barbecue Sandwiches

3 cups chopped celery  
1 cup chopped onion  
1 cup ketchup  
1 cup barbecue sauce  
1 cup water  
2 tablespoons vinegar  
2 tablespoons Worcestershire sauce  
2 tablespoons brown sugar  
1 teaspoon chili powder  
1 teaspoon salt  
1/2 teaspoon pepper  
1/2 teaspoon garlic powder  
1 boneless chuck roast (3 to 4 pounds), trimmed  
14 to 18 hamburger buns, split  
In a slow cooker, combine the first 12 ingredients; mix well. Add roast. Cover and cook on high for 6-7 hours or until tender. Remove roast; cool. Shred meat and return to sauce; heat through. Using a slotted spoon, fill each bun with about 1/2 cup of meat mixture.  
**Yield: 14-18 servings**

### Nut Goodie Bars (No Bake)

12 oz. chocolate chips  
1/4 cup vanilla pudding  
12 oz. butterscotch chips (not instant)  
2 cups peanut butter  
1/4 tsp. salt  
1/2 cup evaporated milk  
2 lbs. powdered sugar  
1 cup butter or margarine  
1 lb. Spanish peanuts  
Pan Size: Jelly Roll Pan  
Melt chips. Add peanut butter. Put 1/2 in greased pan. Chill. Filling: 1/2 cup evaporated milk, margarine or butter, pudding and salt. Bring just to a boil, add powdered sugar. Spread over chilled mixture. Layer peanuts over filling and cover with other 1/2 of chocolate mixture. Chill and cut into squares. Freezes well.

### Layer Salad

1 head lettuce  
2 cups Hellman's mayonnaise  
1/2 cup chopped celery  
2 Tbsp. sugar  
1/2 cup chopped onion  
Shredded Cheddar cheese  
1 box frozen peas  
8 slices bacon (or Bac-O's)  
Shred the lettuce. Add celery and onion in layers. Add peas, mayonnaise, sugar and cheese. Fry the bacon crisp and crumble on top. Cover and let set overnight. To serve 6, use 1/2 recipe in 9x9 inch pan.

### Fruit Pizza

1/2 cup margarine  
1/2 cup Crisco  
1-1/2 cup sugar  
2 eggs, beaten  
2-3/4 cup flour  
2 tsp. cream of tartar  
1 tsp. soda  
1/4 tsp. salt  
1 - 8 oz. pkg. cream cheese  
1/2 cup sugar  
2 Tbsp. fruit juice  
1 - 20 oz. can crushed pineapple, drained  
1 can of Mandarin oranges, drained  
2 bananas  
1 pt. fresh strawberries  
1 cup fruit juice  
3 tsp. cornstarch  
Walnuts, optional  
Oven Temp.: 400°  
Pan Size: Sheet Cake Pan  
Time: 8 to 10 minutes  
Mix margarine, Crisco, sugar, eggs, flour, cream of tartar, soda and salt. Mixture will be firm. Will have to press into a sheet cake pan. Bake. Mix cream cheese, sugar and fruit juice well and spread on a cool crust. Save juice from pineapple and oranges. Arrange fruit evenly over the top. Cook remainder of juice and cornstarch. Let cool and pour over fruit. Keep refrigerated and serve with Cool Whip. Walnuts are optional.

# From the Mail Bag

Dear RLEC,  
Thank you for donating the medals for the Pennington County 4-H Herdmanship Program.

**Emily Bakke**  
**Herdmanship Coordinator**  
**Pennington County 4-H**

Dear RLEC,  
We certainly enjoyed our recent trip to Milton R. Young Station.

The informational stops and presentors made us aware of the many dedicated people who work hard to give us our electricity with the flip of a switch. The food and fellowship was outstanding as well. This was Kevin Reich's last tour and we were pleased to be a part of it.

**Thank you,**  
**Jerome and Margaret**  
**Schindler**  
**Red Lake Falls**

Dear RLEC,  
Thank you so much for sponsoring my 4-H project! I greatly appreciate it. Also, thank you for all the work you do for our town!

**Hallie Harmoning, age 11**  
**Huot Hustlers 4-H**  
**Red Lake Falls**

Dear RLEC,  
Thanks for the \$20 on top 4-H Exploring the Environment. I plan on saving it.

**Sincerely,**  
**Brock Tvedt**  
**Happy-Go-Lucky 4-H**  
**Red Lake Falls**

Dear RLEC,  
Thank you for choosing me as a recipient of your scholarship. It will be very useful for me while I attend UND. I appreciate it.

**Sincerely,**  
**Carli Thompson**  
**Middle River**

Dear RLEC,  
We would like to thank you once again for a most memorable tour of Minnkota Corporate Headquarters in Grand Forks and of the Milton R. Young Station near Center, N.D.

We were very impressed and we enjoyed ourselves and believe you are fulfilling your mission of "keeping our electricity the best energy value in the region."

**Thank you,**  
**Orville and Gen Knott**  
**Red Lake Falls**

Dear RLEC,  
Thank you for the great trip to tour the power plant. Kevin and the rest of the team did a great job. Kevin, thank you for all your years. You will be missed by many people.

**Thank you,**  
**Allen and Lois Remick**  
**Red Lake Falls**

Dear RLEC,  
We want to thank you for restoring our power so quickly on Saturday evening, June 21 after the fast moving wind and hail storm.

We appreciate the courteous, fast service of the entire Red Lake Electric staff.

**Thank you,**  
**Loren and Marjean**  
**Sanderson**  
**Crookston**

Dear RLEC,  
Thank you for the 4-H Business Award you gave me for my Sr. Doe Rabbit project. I plan to put the money toward a car. Thank you for supporting 4-H.

**Bailey Culkins**  
**Plummer**

Dear RLEC,  
We would like to thank RLE for the opportunity to go on the bus trip to Milton Young Power Plant. All the tour guides were excellent. We had a wonderful time and the trip was very educational.

**Thanks again,**  
**LeRoy and Joyce**  
**Christensen**  
**Red Lake Falls**

Dear RLEC,  
Big thank you for the *Volts & Jolts*. I enjoy the paper so much! Wishing each and every one of you a very nice summer. Thanks for your kindness.

**Hulda Sigerud**  
**Thief River Falls**

Dear RLEC,  
Ken and I would like to thank the Red Lake Electric Cooperative for a fantastic power plant tour. We have always wanted to go out to see the coal fields and the plant where our electricity comes from. It was a truly an eye opening experience to see what is involved so we can flip the switch in our house and the lights come on. We appreciate all of Red Lake Electric employees who work hard to keep us with electricity everyday, good weather or bad weather.

The information we received from everyone from Grand Forks, the power plant tour, the knowledgeable guides and the ride on the big equipment on the coal field was more than we expected. Kevin did a super job of planning the trip and making sure everyone had a great time. The people, the bus ride and the food was enjoyed by all. Once again thank you Red Lake Electric for a job well done.

**Ken and Linda Ulrich**  
**Red Lake Falls**

# Standby Generator Safety and Connections

While standby generators can provide relief and convenience during a power outage, they can also be hazardous if used improperly. To keep your family safe when using a standby generator, please follow these basic rules.

1. **Never operate a portable generator inside a home, garage, or other closed building.**

Just like your car's engine, your generator produces carbon monoxide when it's running. This is an odorless, invisible and deadly gas that will overtake you in minutes. To keep fumes away from people and pets, operate the generator outdoors and away from air intakes to the home. Also consider installing a carbon monoxide alarm (with battery backup) in the home, especially in sleeping areas.

2. **Never plug a portable electric generator into a regular household outlet or breaker box.**

Connecting a portable generator directly into your home's circuitry can send electricity back through power lines, creating lethal hazards for utility crews working to restore power. It can also damage your home's electrical wiring or may even destroy the generator when power returns. Instead, connect individual appliances into the receptacle outlets on the generator. Use heavy duty, outdoor-rated extension cords with a wire size (gauge) adequate for the appliance load. Your generator should be started first, then connected to individual appliances

3. **Permanently-installed generators for homes or businesses should only be installed by a certified electrician and have a properly wired transfer switch.**

Once the decision is made to purchase a permanently-installed generator, most of the hazards tied to portable units disappear. Rather than extension cords, the generator will provide power to critical loads through a transfer switch and wiring that is now part of the home's electrical system. The issue of carbon monoxide is also gone, because the certified (2214003.04, Derick Converse) installer will locate the generator at a safe distance from the home.

The key is to select a qualified and experienced installer. They will need to conduct a complete inventory of the loads to be powered, to determine proper sizing of the generator,

transfer switch and conductors. The installation must conform to both local codes and the stipulations of your electric utility.

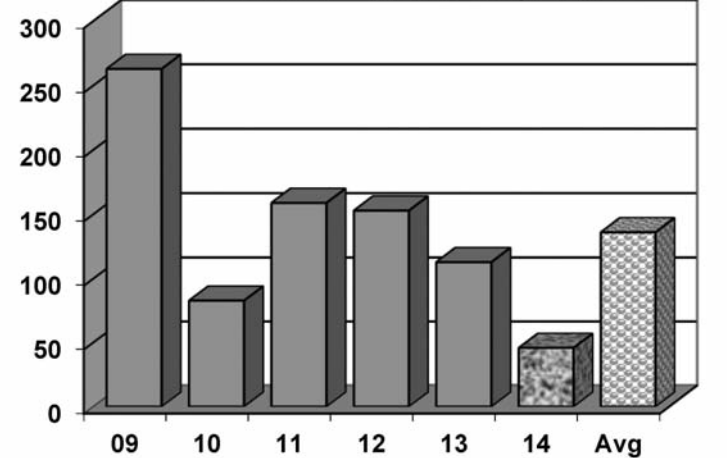
Before investing in a back-up generator, consider purchasing our guide for homeowners, farmers and small businesses titled *Sizing and Selecting Your Standby Generator*. You can learn more about our 20-page full-size booklet (8 1/2 by 11) at this site. Click here to read a full description and prices in our shopping cart (scroll to find this publication near bottom of list). The explanations, tips and useful images will help you properly select and install a standby generator system.

*Source: Rural Electricity Resource Council*

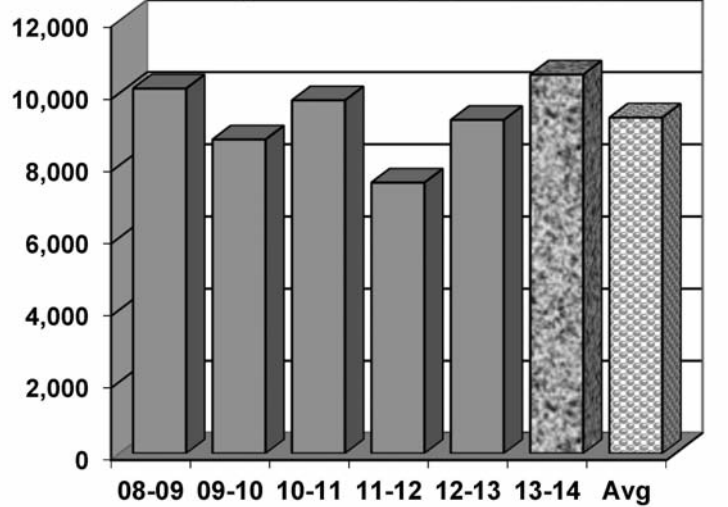
# DEGREE DAYS

To determine degree days, you must calculate the daily mean temperature for the time period you are measuring. Degree day computation is based on the assumption that a building does not require any heat if the outside temperature averages 65 degrees during a 24-hour period. To obtain a degree day figure, the high temperature and the low temperature for the day are added and the total divided by two. That figure is then subtracted from 65. For example, if the high temperature was 30 degrees and the low temperature 10 degrees, the figure would be 30+10=40; 40/2=20; 65-20=45. This would be a 45-degree day. The higher the degree day figure, the more heat required to warm your home.

## DEGREE DAYS June 1 - June 30, 2014



## Year To Date September 1 to June 30



## Red Lake Electric Cooperative, Inc. Operating Report

### MONTHLY COMPARISON

	MAY 2013	MAY 2014
Total Revenue .....	\$1,028,336	\$ 1,139,520
Total Margins .....	\$ 118,645	\$ 125,955
Cost of Power .....	\$ 685,555	\$ 766,606
KWH's Purchased.....	\$ 8,543,598	\$ 9,508,601
Capital Credits Paid to Estates ..\$	6,436	\$ 4,902

### YEAR TO DATE COMPARISON

	MAY 2013	MAY 2014
Total Revenue .....	\$6,690,788	\$ 7,343,508
Total Margins .....	\$1,126,930	\$ 1,409,561
Cost of Power .....	\$4,425,189	\$ 4,671,699
KWH's Purchased .....	66,763,002	70,603,331
New Service Connections .....	9	5
Customers Served.....	5,232	5,280
Capital Credits Paid to Estates ..\$	53,910	\$ 23,546
Average outage time in minutes	11	35
per member		
Miles of Line		
Overhead.....	2,324	2,323
Underground.....	256	264

# IV PHOTOGRAPHY

SENIOR PORTRAITS  
FAMILY PORTRAITS  
ENGAGEMENT PORTRAITS

CONTACT  
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RED LAKE FALLS, MN 56750  
IVPHOTOGRAPHYLLC@OUTLOOK.COM  
218-253-2380



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## VOLTS AND JOLTS FEATURE OF THE MONTH

# Brule Farms receives century farm status

*By Heather Blodgett*

David and Kathleen Brule, of David Brule Farms, were recognized as a 2014 Minnesota century farm at the Polk County Fair.

The farm, located in rural Gentilly, was purchased by David's grandfather, Phillias Brule, in 1905. Even though the farm was purchased in 1905 it wasn't officially recorded until 1914.

Phillias also built a home on the property and married his wife, Caroline, in 1905. All of the couple's children were born in that house. Caroline lived to the age of 105 and their oldest daughter, Delia, is currently 105 years old and expected to turn 106 in November.

Phillias and Caroline farmed with horses during their time on the farm. A large barn was built in 1911. Dairy cattle, pigs and chickens were prevalent in their operation. The farm was then purchased by their son, Noel, in 1939.

Noel and his wife, Lucille, continued with chickens, pigs, and cattle, but added modern technology to the venture. Noel, David's father, bought the farm's first tractor in 1944. It was a McCormick Deering Model H and is a tractor David still has on the farm today.

"My dad was an entrepreneur," said David of Noel. "He was one of the first ones to use fertilizer in the area. He worked with the Tennessee Valley Association and was one of the first in Gentilly Township to raise commercial potatoes for Simplot."

After high school and joining the National Guard, David started working for his father on the farm in 1964, the same year he married Kathleen. The couple, who will celebrate 50 years of mar-



**Pictured are the third, fourth and fifth generations of the Brule farm family. They include, front row, David and Kathleen Brule; second row, Tyler Shaver, their grandson and Todd and Vickie Brule, their son and daughter-in-law.**

riage in November, purchased the farm from his parents in 1975.

Dairy cattle was a part of the farm until 1974, when sugar beets became the focus. "Dad always

told us that if you ever get a contract with American Crystal to raise sugar beets, to get rid of the cows," explained David. "I was one of the first to put in sugar beets in Gentilly Township."

While sugar beets are a main crop on the farm, potatoes, corn and grains are important to the business as David is a registered and certified grain farmer. Edible black beans and soybeans round out the farm's crops.

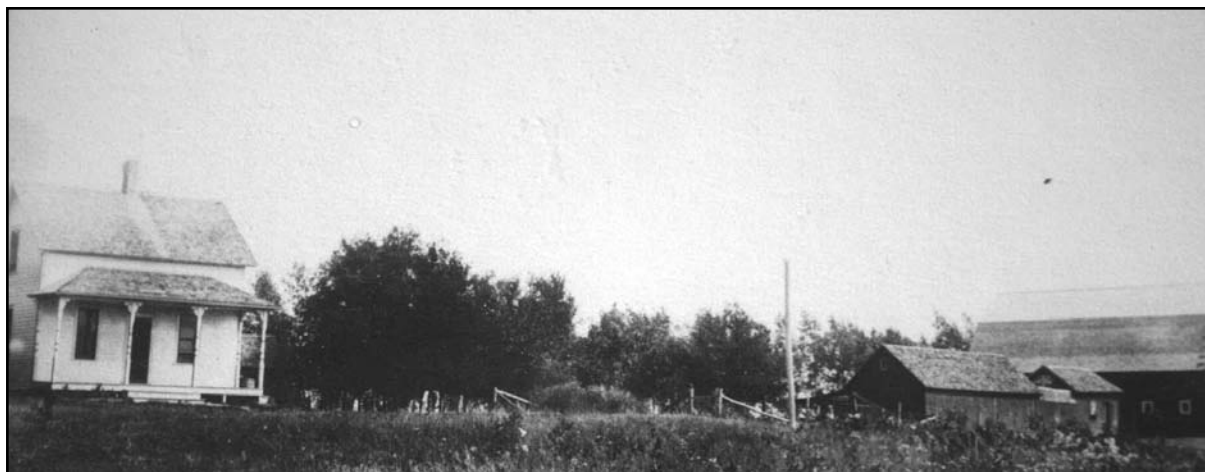
Farming is a family affair for the couple, who have five children, 14 grandchildren, and two great-grandchildren. Their son, Todd, started farming in 1998 and lives across the road from them. Tim, their nephew, works as a hired hand on the farm and their grandson, Tyler Shaver, 16, started working on the farm this year.

While the farm is in rural Gentilly, David also farms land near Terrebonne. The couple lives in the original house built by Phillias, however it has undergone several renovations and additions over the years. "I've got a connection to the land," he said. "You treat the land and it will treat you back, if you treat it well and be a steward of the land."

David grew up on the farm and genuinely enjoys the lifestyle. "I enjoy seeding in the spring and watching the crops grow and then the harvest," he said. "You're working with God. Mother nature is in charge and I like the challenge of it. It's in my blood."

David says living on the farm keeps him connected to his family and it has been a good life. "It means family to me. They went before us doing all the hard work. It's so fascinating what they had to do to make a living."

David is preparing for retirement but knows there is a future for the farm. "I'd like to phase out here pretty soon," he revealed. "There's going to be a good future for it because there's always people to feed. It's a good life."



**A treasured family photo for the Brule's, this shows the farm house and farm as it looked after the barn was built in 1911.**



**This shows the David Brule farm as it looks today, from the same angle as the historic photo. The original home has undergone additions and remodeling, but still sits in the same position. The original barn can be seen at the far right of the photo.**



**The original barn has been restored and stands prominently on the property.**

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**Red Lake Electric  
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*One of the Minnesota Power Systems*



# Power Savers program incentives continue

As a directive from the state legislature, Red Lake Electric Cooperative (RLEC) must spend money on conservation programs that yield electric energy savings. Energy conserved must equal 1.5 percent of the Cooperative's total annual kilowatt hour sales.

To help meet this directive the Cooperative is offering Power Savers. This program offers incentives to implement conservation measures. Residential offerings span from a \$2 rebate on compact fluorescent lamps (CFL) to \$400 per ton on a geothermal, closed loop heat pump. Business incentives apply for lighting, air conditioning, air (2613001.02 Oliver B Urdahl) source heat pumps, geothermal heat pumps, chillers, motors, variable frequency drives, and Energy Star food service equipment.

Rebate forms that list the offerings are posted on RLEC website, [www.redlakeelectric.com](http://www.redlakeelectric.com).

The forms are also available from the Cooperative or local electrical and heating/cooling contractors.

The accompanying tables list many of the incentives.

Custom applications may also apply to business customers. Most energy conservation measures can be explored to see if the measure qualifies for an incentive.

For additional information, contact RLEC at 253-2168 or 800-245-6068.

## 2014 Residential Incentives

Lighting and Appliances		
ENERGY STAR® CFL Lamps	Replace incandescent bulbs with ENERGY STAR compact fluorescent lamps (CFLs)	\$2/bulb <i>Max. 12 per customer</i>
ENERGY STAR LED Screw-In Bulb	Replace incandescent bulbs with screw-in ENERGY STAR LED bulb	\$7/bulb <i>Max. 12 per customer</i>
LED Recessed Downlights (complete fixture)	Replace 60-125W incandescent. Must be ENERGY STAR approved	\$25/install
LED Recessed Downlights (screw-in replacement kit)	Replace 60-125W incandescent. Must be ENERGY STAR approved	\$15/install
Programmable Thermostat		\$25/unit
ENERGY STAR Refrigerator	ENERGY STAR	\$25/unit
ENERGY STAR Refrigerator (with recycling of old refrigerator)	ENERGY STAR	\$50/unit

ENERGY STAR® Freezer	ENERGY STAR	\$25/unit
ENERGY STAR Freezer (with recycling of old freezer)	ENERGY STAR	\$50/unit
Clothes Washer	ENERGY STAR	\$50/unit
Electric Water Heater	Minimum 80-gallon total capacity, EF ≥0.91. Must be controlled under the utility's load management program	\$150/unit
Heating, Ventilation Air Conditioning (HVAC) Measures		
Tune-Up for Residential Central A/C	Not valid on window units	\$25/unit
Tune-Up for Residential Air-Source Heat Pumps (ASHP)	Excludes mini-split ductless ASHPs	\$25/unit
ASHP	ENERGY STAR or 14.0 SEER / 8.2 HSPF	\$400/unit
Supplemental Heating Source for ASHP	Must modulate to allow ENERGY STAR-rated ASHP to operate down to 5 degrees F, and be on load control	\$500/unit
Furnace (Air Handler) with ECM Blower	Furnace with ECM blower	\$150
Mini-Split/Ductless ASHP	15 SEER	\$500
New furnace/indoor unit installations. All efficiency ratings will be verified using the AHRI database ( <a href="http://ahridirectory.org">ahridirectory.org</a> ).		

Geothermal Measures		
Ground-Source Heat Pump (GSHP) Open Loop <135,000 BTUH @ 59°F	16.2 EER / 3.6 COP	\$200/ton <i>Maximum incentive \$2,500/home</i>
Closed Loop <135,000 BTUH @ 77°F	14.1 EER / 3.3 COP	\$400/ton <i>Maximum incentive \$5,000/home</i>
New installations only. All efficiency ratings will be verified using the AHRI database ( <a href="http://ahridirectory.org">ahridirectory.org</a> ). Water-to-water systems need the manufacturer's specifications indicating the equipment meets incentive requirements.		
Replacement Geothermal		
Ground-Source Heat Pump (GSHP) Open Loop <135,000 BTUH @ 59°F	16.2 EER / 3.6 COP	\$100/ton <i>Maximum incentive \$1,250/home</i>
Closed Loop <135,000 BTUH @ 77°F	14.1 EER / 3.3 COP	\$200/ton <i>Maximum incentive \$2,500/home</i>
Incentive available for failed geothermal equipment only. Entire indoor unit replacement is required to receive incentive. Replacing only the compressor will not qualify for the incentive. Equipment being replaced must fall outside of any warranty period to receive incentive. Invoice showing proof of purchase must be attached.		
<b>All GSHP incentives must meet following criteria:</b> Efficiency ratings will be verified using the AHRI database ( <a href="http://ahridirectory.org">ahridirectory.org</a> ). Equipment must meet or exceed efficiency requirements or carry an ENERGY STAR® qualification. Requires a heat load calculation to be submitted clearly delineating design temperature used for analysis, resulting heat loss and equipment heating capacity for the home. Incentive is based off total heating capacity for the home. If equipped with backup electric heat, home must be on load control or demand billing per local utility offerings.		

## 2014 Business Incentives

Lighting – New Construction		
(Unless noted, must be used for lighting with a minimum of 1,800 hours of operation per year)		
High Performance (Super) T8 Fluorescent Systems (CEE qualified only)		
T8 4ft. High Performance		Both ballasts and lamp must be from CEE-approved list and meet the CEE specifications for High Performance T8 Systems in order to qualify.
1-lamp	\$6/unit	
2-lamp	\$7/unit	
3-lamp	\$12/unit	
4-lamp	\$14/unit	
Reduced Wattage T8 Fluorescent Systems		
T8 4ft. Reduced Wattage 25W and 28W Systems		Lamps and ballasts must meet the CEE specifications for High Performance T8 Systems.
1-lamp	\$7/unit	
2-lamp	\$9/unit	
3-lamp	\$13.50/unit	
4-lamp	\$18/unit	
T8 High-Bay Fluorescent Fixtures with T8 Lamps and Electronic Ballasts		
High-Bay T8 Fixtures – 4ft. Lamps		Install T8 fluorescent high-bay fixtures using recommendations from lighting professionals that use lighting design software to match the most efficient design to actual lighting needs.  Typically used instead of pulse-start metal halide fixtures.
3-lamp	\$20/unit	
4-lamp	\$25/unit	

LOOK UP

POWER LINES MAY BE OVERHEAD

## 2014 Business Incentives Continued

T8 High-Bay Fluorescent Fixtures with T8 Lamps and Electronic Ballasts <i>(continued)</i>		
6-lamp	\$50/unit	Install T8 fluorescent high-bay fixtures using recommendations from lighting professionals that use lighting design software to match the most efficient design to actual lighting needs.  Typically used instead of pulse-start metal halide fixtures.
8-lamp	\$70/unit	
See "Commercial Lighting" at <a href="http://www.cee1.org">www.cee1.org</a> for approved lamp and ballast list. However if the ballast has a NEMA premium label, it automatically qualifies.		
T5HO High-Bay Fluorescent Fixtures with T5 High Output Lamps & Electronic Ballasts		
<i>(Unless noted, must be used for lighting with a minimum of 1,800 hours of operation per year)</i>		
High-Bay T5 High Output Fixtures with 4ft. Lamps		
3-lamp	\$25/unit	Consult with a lighting professional (e.g., lighting suppliers and contractors) using their recommendations to install T5HO fluorescent high-bay fixtures.  Typically used instead of pulse-start metal halide fixtures.
4-lamp	\$50/unit	
6-lamp	\$70/unit	
All fluorescent fixtures must utilize electronic ballasts and T8 or T5 lamps. Ballasts shall have a power factor greater than 90%. Harmonic distortion of ballasts shall not exceed 20%. For 8-foot fluorescent ballasts, the total harmonic distortion shall not exceed 30%.		

LED and Induction Technologies – Must be ENERGY STAR® or DesignLights Consortium™ approved		
ENERGY STAR LED Screw-In Bulbs	Replacing 40W or greater. Must be ENERGY STAR approved.	\$ 7.00
ENERGY STAR LED Recessed Downlights	Replace 60-125W incandescent. Must be ENERGY STAR approved.	\$ 25.00
LED Case Lighting	Retrofit or new installations. Must be DesignLights Consortium™ approved.	\$25/door
LED or Induction Fixtures – Garage or Exterior Use	75W – 104W fixture with equivalent light output to 125W – 175W or greater HID fixture.	\$ 80.00
LED or Induction Fixtures – Garage or Exterior Use	105W – 149W with equivalent light output to 175W - 249W or greater HID fixture.	\$100.00
LED or Induction Fixtures – Garage or Exterior Use	150W - 240W with equivalent light output to 250W- 400W or greater HID fixture.	\$120.00
LED or Induction Fixtures – Exterior Use	450W - 600W with equivalent light output to 750W – 1,000W or greater HID fixture.	\$225.00

Lighting – Retrofit		
(Unless noted, must be used for lighting with a minimum of 1,800 hours of operation per year)		
Compact Fluorescent Fixtures and Lamps (CFL)		
ENERGY STAR® CFL Screw-In Lamps	\$1.50/unit Must be ENERGY STAR approved	Incentive per screw-in self-ballasted lamp
ENERGY STAR CFL Reflector Flood	\$4/unit Must be ENERGY STAR approved	Replace lamp on failure/new construction
LED and Induction Technologies		
LED Technologies must be ENERGY STAR® or DesignLights Consortium™ approved		
LED Recessed Downlights (complete fixture)	\$25/install	Replace 60-125W incandescent
LED Recessed Downlights (screw-in replacement kit)	\$15/install	
ENERGY STAR LED Screw-In Bulb	\$7/bulb	Replace 40W or greater
LED Exit Sign – New Fixture ≤ 8 Watts	\$12/unit	Replace or retrofit existing sign.  LED Exit Signs shall use 8 Watts or less, including the battery charger when active.  Must meet State Fire Marshal codes and be UL-rated.
LED Automobile Traffic Signal	\$25/lamp replaced	Traffic signals using LED lights must replace conventional signals.
LED Pedestrian Signal	\$22/sign	Pedestrian signals using LED lights must replace conventional signals.

T8 4ft. Lamps and Ballast with Reflectors		
<i>(Permanent removal of existing ballasts and unused lamp sockets required)</i>		
<b>2-lamp</b> Replacing T12 4ft. 4-lamp	\$25	Replace or retrofit T12 systems with a T8 system using 4' lamps. New fixtures or retrofit kits must be used.
<b>2-lamp</b> Replacing T12 8ft. 2-lamp	\$18	
<b>3-lamp</b> Replacing T12 4ft. 4-lamp	\$18	Design must meet maintained Illuminating Engineering Society (IES) recommended light levels for the area.
<b>Reduced Wattage Fluorescent T8 Lamps Only</b>		
4ft. 28W or less	\$1/lamp	Replace existing 32W 4' or 59W 8' T8 lamps with low watt T8 lamps.
8ft. 54W or less		
<b>Reduced Wattage T8 Fluorescent Systems</b> <i>(CEE qualified only)</i>		
<b>T8 4ft. Reduced Wattage System</b>		
1-lamp	\$7/unit	Replace incandescent or T12 systems with 28 and 25 watt CEE qualified Reduced Wattage T8 Systems. Lamps and ballasts used must meet the CEE specifications for Reduced Wattage T8 Systems.
2-lamp	\$9/unit	
3-lamp	\$13.50/unit	
4-lamp	\$18/unit	
Replacement fixtures or lamp and ballast retrofits are eligible.		
See "Commercial Lighting" at <a href="http://www.cee1.org">www.cee1.org</a> for approved lamp and ballast list. <b>However if the ballast has a NEMA premium label, it automatically qualifies.</b>		

High Performance (Super) T8 Fluorescent Systems (CEE qualified only)		
<b>T8 4ft. High Performance</b>		
1-lamp	\$6/unit	Replace incandescent, T12 systems, or specified standard T8 Systems with CEE qualified High Performance (super) T8 Systems.  Lamps and ballasts used must meet the CEE specifications for High Performance T8 Systems.  Replacement fixtures or lamp and ballast retrofits are eligible.
2-lamp	\$7/unit	
3-lamp	\$12/unit	
4-lamp	\$14/unit	
<b>T8 4ft. High Performance – Replacing Specific Fixtures</b>		
2-lamp	\$8/unit	Replacing T12 8' one lamp fixture – one for one replacement only.
2-lamp	\$20/unit	Replacing T12HO 8' one lamp fixture – one for one replacement only.
4-lamp	\$16/unit	Replacing T12 8' two lamp fixtures – one for one replacement only.
4-lamp	\$30/unit	Replacing T12HO 8' two lamp fixtures – one for one replacement only.
<i>High Performance (super) T8 systems require manufacturer and model number for ballast and lamps used. Both ballast and lamp must be from CEE approved list to qualify.</i>		
<b>T8 High-Bay Fluorescent Fixtures with T8 Lamps and Electronic Ballasts</b>		
<i>One for one replacement only. Only when replacing specific wattage HID (metal halide, mercury vapor and high pressure sodium) or incandescent fixtures.</i>		
<b>High-Bay T8 Fixtures 4ft. Lamps</b>		
3-lamp	\$45/unit	Replacing 150 Watt or larger
4-lamp	\$70/unit	Replacing 250 Watt or larger
6-lamp	\$85/unit	Replacing 400 Watt to 749 Watt
6-lamp	\$120/unit	Replacing 750 Watt or larger
8-lamp	\$70/unit	Replacing 400 Watt to 749 Watt
8-lamp	\$100/unit	Replacing 750 Watt or larger
<i>See approved list at <a href="http://www.cee1.org">www.cee1.org</a>, under “Commercial Lighting.” However if the ballast has a NEMA premium label, it automatically qualifies.</i>		



## 2014 Business Incentives Continued

T5HO High-Bay Fluorescent Fixtures with T5 High Output Lamps & Electronic Ballasts		
One for one replacement only. Only when replacing specific wattage HID (metal halide, mercury vapor and high pressure sodium) or incandescent fixtures.		
High-Bay T5 High Output Fixtures with 4ft. Lamps		
2-lamp	\$60/unit	Replacing 150 Watt to 249 Watt
2-lamp	\$75/unit	Replacing 250 Watt or larger
3-lamp	\$70/unit	Replacing 250 Watt or larger
4-lamp	\$90/unit	Replacing 400 Watt or larger
6-lamp	\$70/unit	Replacing 400 Watt to 749 Watt
6-lamp	\$125/unit	Replacing 750 Watt or larger
8-lamp	\$110/unit	Replacing 750 Watt to 999 Watt
8-lamp	\$200/unit	Replacing 1,000 Watt or larger
10-lamp	\$175/unit	One 10-lamp or two 5-lamp replacing 1,000 Watt or larger
12-lamp	\$150/unit	One 12-lamp or two 6-lamp replacing 1,000 Watt or larger
All fluorescent fixtures must use electronic ballasts and T8 or T5 lamps. Ballasts shall have a power factor greater than 90%. Harmonic distortion of ballasts shall not exceed 20%. For 8-foot fluorescent ballasts, the total harmonic distortion shall not exceed 30%.		

LED Case Lighting	\$25/door	Replacing fluorescent
LED or Induction Fixtures (Garage or Exterior Use)	\$80/unit	Replacing up to 175 Watt HID
	\$100/unit	Replacing 175 Watt to 249 Watt HID
LED or Induction Fixtures (Exterior Use Only)	\$120/unit	Replacing 250 Watt to 400 Watt HID
	\$225/unit	Replacing 750 Watt to 1,000 Watt HID
LED and Induction Technology must be complete fixtures with a total power reduction of 40% or more. Lamp-only replacements are not eligible for incentive.		
LED garage and exterior fixtures should have a minimum efficiency of 35 lumens per watt.		

Fluorescent T8 Lamps with Electronic Ballasts		
T8 4ft. Fixture		
1-lamp	\$5/unit	Replace incandescent or T12 systems with T8 systems. Replacement must result in energy savings to qualify.
2-lamp	\$6/unit	
3-lamp	\$11/unit	Replacement fixtures or lamp and ballast retrofits are eligible.
4-lamp	\$13/unit	
T8 8ft. Fixture		
1-lamp	\$7/unit	Retrofits of T12 8' 2-lamp fixtures with four T8 4' lamps placed end to end should be considered a T8 4' 4-lamp retrofit at \$13.
2-lamp	\$9/unit	
T8 8ft. High Output Fixture		
1-lamp	\$12/unit	Retrofits of T12HO 8' 2-lamp fixtures with four T8 4' lamps placed end to end should be considered a T8 4' 4-lamp retrofit at \$13.
2-lamp	\$16/unit	

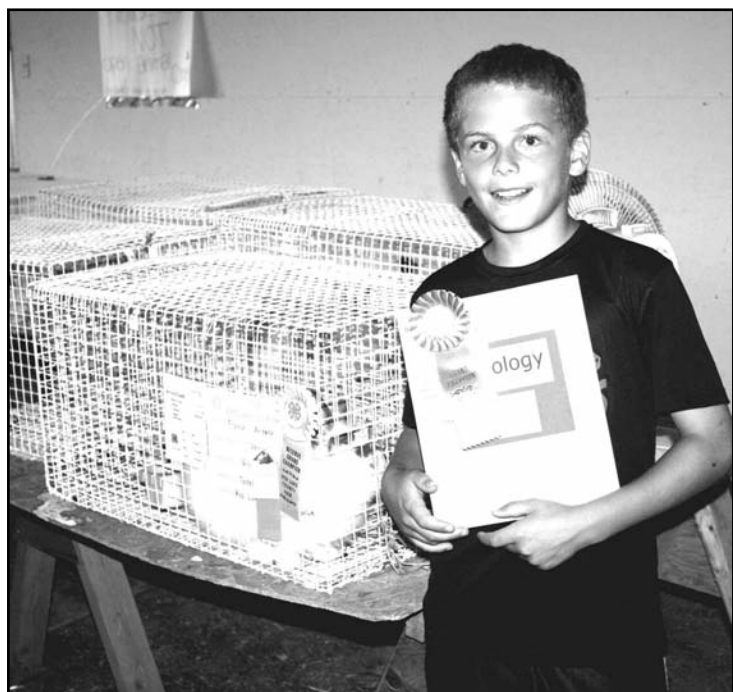
Heating, Ventilation Air Conditioning (HVAC) Measures		
Air Conditioning Tune-up – Rooftop Units (RTUs)		\$50/ton
Central Air Conditioning Tune-up – Split Systems	<5 tons	\$50/ton
Packaged Terminal Air Conditioning	Minimum efficiency (EER) calculation: 12.8 EER – (.213 x BTUH/1,000)	\$35/ton <i>All sizes</i>
Split System Air Conditioning	<65,000 BTUH, <5.4 tons (Single phase - 14 SEER 3 phase - 12 EER)	\$30/ton
	65,000 – 135,000 BTUH 5.4 – 11.3 tons, 11 EER	\$40/ton
	136,000 – 240,000 BTUH 11.4 – 20 tons, 10.8 EER	\$40/ton
	241,000 – 760,000 BTUH 20.1 – 63.3 tons, 9.8 EER	\$40/ton
Unitary Single Packaged Air Conditioning (including RTUs)	>760,000 BTUH >63.3 tons, 9.3 EER	\$40/ton
	65,000 BTUH, <5.4 tons Single phase - 14 SEER 3 phase – 11.3 EER	\$30/ton \$50/ton
	65,000 – 135,000 BTUH 5.4 – 11.3 tons, 11 EER	\$50/ton
	136,000 – 240,000 BTUH 11.4 – 20 tons, 10.8 EER	\$50/ton
	>241,000 – 760,000 BTUH >20.1 – 63.3 tons, 10 EER	\$50/ton
	>760,000 BTUH >63.3 tons, 9.8 EER	\$50/ton

ENERGY STAR® (ES) Window and Wall (Sleeve) Air Conditioning (AC)	ES Window AC <14,000 Btu/hr. ES Window AC >14,000 Btu/hr. ES Sleeve AC <14,000 Btu/hr. ES Sleeve AC >14,000 Btu/hr.	Must meet ENERGY STAR standards	\$35/unit \$70/unit \$30/unit \$70/unit
Furnace/Air Handler with Electronically Commutated Motor (ECM)	Attach spec. sheet or other manufacturer provided document clearly indicating the presence of ECM.		\$150/unit
New residential style/air handler installations only. Unit must be equipped with an ECM as original equipment air handler.			
Mini-Split Air-Source Heat Pump (ASHP)	Unit must be rated a minimum of 15 SEER and be on a list of prequalified units.		\$500/unit
Single Package ASHP (including rooftop units)	65,000 BTUH, <5.4 tons (Single phase - 14 SEER; 3 phase - 11.3 EER)		\$30/ton
	65,000 – 135,000 BTUH 5.4 – 11.3 tons, 10.6 EER		\$25/ton
	136,000 – 240,000 BTUH 11.4 – 20 tons, 10 EER		\$35/ton
	>240,000 BTUH >20 tons, 9.1 EER		\$35/ton
Split System ASHP	<65,000 BTUH, <5.4 tons (Single phase - 14 SEER; 3 phase - 12 EER)		\$30/ton
	65,000 – 135,000 BTUH 5.4 – 11.3 tons, 10.6 EER		\$40/ton
	136,000 – 240,000 BTUH 11.4 – 20 tons, 10 EER		\$40/ton
	>240,000 BTUH >20 tons, 9.1 EER		\$40/ton
For split systems, the indoor coil and condenser must be a matched set to be eligible.			





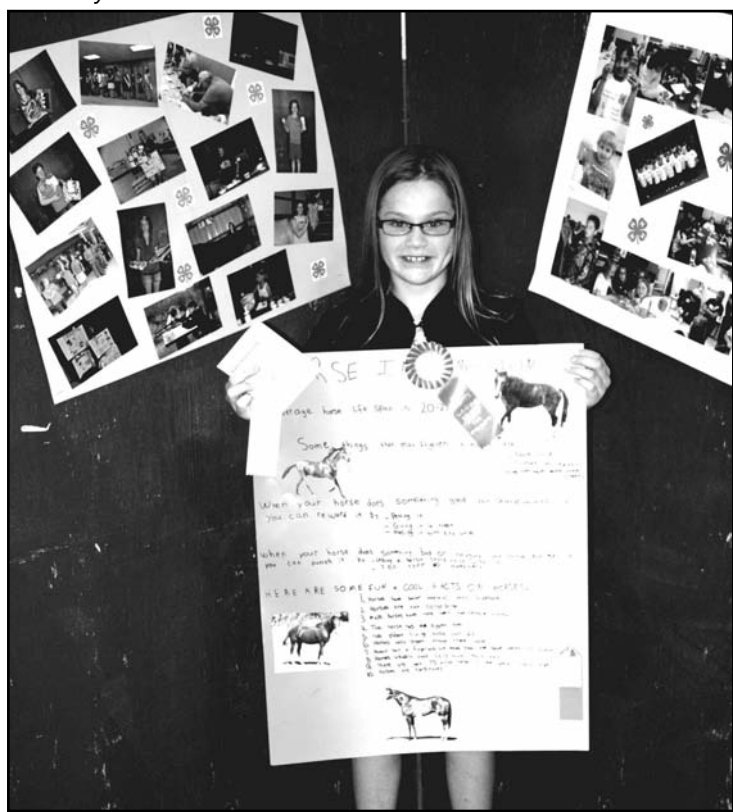




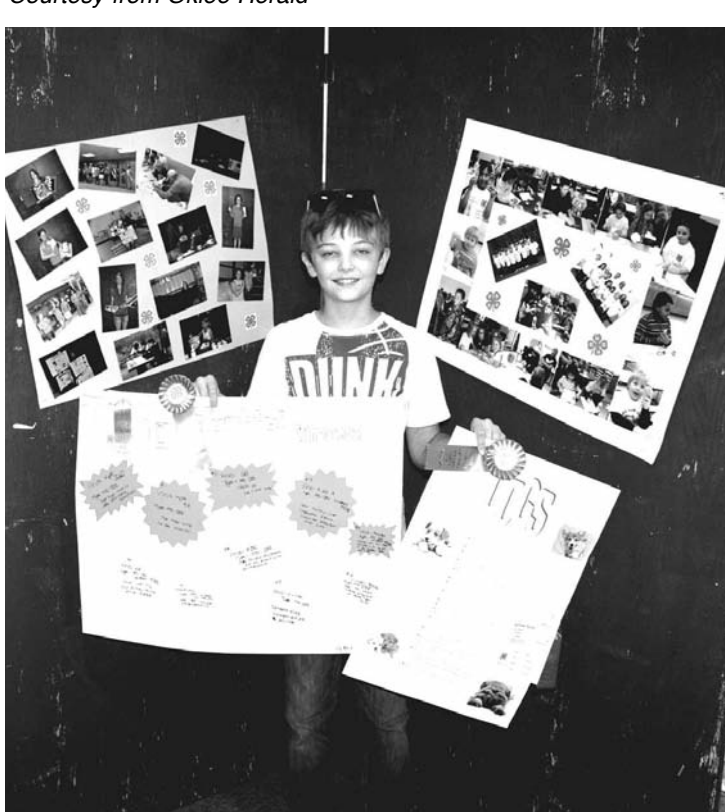
Happy-Go-Lucky 4-H member Brock Tvedt received an award from Red Lake Electric Cooperative at the 2014 Red Lake County Fair for Exploring the Environment. *Courtesy from Oklee Herald*



Garnes Go Getter 4-H member Carson Lambert received a cash award from Red Lake Electric Cooperative at the 2014 Red Lake County Fair for his aerospace project. *Courtesy from Oklee Herald*



Hallie Harmoning of the Huot Hustlers 4-H Club received an award from Red Lake Electric Cooperative at the 2014 Red Lake County Fair for her horseless horse project. *Courtesy from Oklee Herald*



Nick Solie of the Huot Hustlers 4-H Club received a cash award from Red Lake Electric for his computer project at the 2014 Red Lake County Fair. *Courtesy from Oklee Herald*

## Grain bins: harvesting safely

By Abby Berry

As rewarding as it may be, farming is an extremely difficult job and it ranks among the top 10 most dangerous professions in the United States. At Red Lake Electric Cooperative (RLEC) safety is top priority for all, our employees and our members.

Our farmers work hard to get the job done, and sometimes it's easy to forget all the necessary steps to take when practicing safe operations. Grain bins are siloed spaces built for storing grain and fer-

mented feed known as silage. These bins play an integral role in the efficiency and profitability of farm and ranch operations, and safety regulations should always be considered when working around these structures.

Whether you're purchasing new grain bins or remodeling areas that (4508006.05, Travis Nelson) contain existing ones, proximity to overhead power lines must be a considered factor.

**Safe clearance.** The National Electrical Safety

Code requires an 18-foot minimum vertical clearance from the highest point of the filling port of the grain bin to nearby high-voltage wires and a 55-foot minimum distance from the power line to the grain bin wall.

Changes to landscaping and drainage work can affect clearance heights of power lines, so remember to check these measurements regularly.

**Filling grain bins.** High-voltage power lines are not insulated, so it's important to remember to maintain an adequate high-wire clearance when using a portable auger, conveyor or elevator to fill your grain bin.

**Moving equipment near grain bins.** When moving

equipment, such as a hopper or a scaffold, be aware of nearby power lines. Remember to maintain a 10-foot clearance to ensure safety.

Accidents can happen in a split-second, which is why RLEC reminds you to always use caution when working near power lines. If you are considering a plan for a new grain bin or reconstruction of an existing bin's site, please contact RLEC at 218-253-2168.

Abby Berry writes on consumer and cooperative affairs for the National Rural Electric Cooperative Association, the Arlington, Va.-based service arm of the nation's 900-plus consumer-owned, not-for-profit electric cooperatives.

## Know how to stay safe after storms

Severe thunderstorms, tornadoes and flooding can leave more than damage in their wake, they can leave hidden dangers as well. Safe Electricity advises everyone to be mindful of the electrical hazards that storms and flooding can leave behind.

Stay away from downed power lines and be alert to the possibility (3729053.02, Misty D. Hicks) that tree limbs or debris may hide an electrical hazard. Treat all downed or hanging power lines as if they are energized and dangerous. Lines do not have to be arcing or sparking to be live. Warn others to stay away and contact the electric utility.

Never step in to a flooded basement or other area if water is covering electrical outlets, appliances or cords. Be alert to any electrical equipment that could be energized and in contact with water. Never touch

electrical appliances, cords or wires while you are wet or standing in water. Never turn off your break box if you must stand in water to do so.

If you are cleaning up, do not use electric yard tools if it is raining, the ground is wet, or you are standing in water. Keep all electric tools and equipment at least ten feet away from wet surfaces.

Do not use water-damaged electronics or appliances until a professional has verified that they are safe.

If you are driving and come upon a downed power line, stay in your vehicle, warn others to stay away, and contact emergency personnel or the electric utility. Never drive over a downed line. A downed line causes other things around it to become potentially hazardous.

Source: Safe Electricity

## Hidden dangers at your dock: Learn from Lucas' story

Like millions of water recreation enthusiasts, Kevin and Sheryl Ritz always made sure their kids wore life jackets and were supervised in and out of the water. So the tragedy of that hot August day years ago was unimaginable.

Eight-year-old Lucas Ritz wanted to join his brother and friends in the inner tube they were using to float down the marina channel. Lucas, in a life jacket, swam out to the inner tube, while Sheryl walked down the dock to keep an eye on them. The boys were unable to pull him onboard, so he decided to get out of the water mid-way.

Sheryl recalls, "I saw that he was heading in toward the dock to get out of the water. Then all of a sudden he screamed and rolled (back) on

his life jacket." Sheryl yelled for help, then jumped in to help him and she immediately felt like she couldn't move.

Lucas never (4401009.03, James Lehrer) regained consciousness. The coroner ruled his death a drowning.

However, Kevin insisted on investigating further, which led to the discovery that a boat docked where Lucas was heading was leaking 120 volts of electricity into the water. Lucas was killed as he entered the energized water, and Sheryl had been paralyzed when she jumped in to help.

Learn how you can avoid a water recreation tragedy like this.

Visit [eastcentralenergy.com](http://eastcentralenergy.com) to read Lucas' story.

Source: [safeelectricity.org](http://safeelectricity.org)

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## Informational Web Sites

The following is a list of Web sites that can provide information and education in reference to electrical safety and energy conservation. These Web sites are listed as links on Red Lake Electric Cooperative's Web site at [www.redlakeelectric.com](http://www.redlakeelectric.com).

- Electrical Safety Foundation International: [www.esfi.org](http://www.esfi.org)
- Alliance to Save Energy: [www.ase.org](http://www.ase.org)
- US Environmental Protection Agency: [www.epa.gov/greenhomes](http://www.epa.gov/greenhomes)
- Energy Star: [www.energystar.gov](http://www.energystar.gov)
- Minnesota Safety Council: [www.minnesotasafetycouncil.org](http://www.minnesotasafetycouncil.org)
- Safe Electricity: [www.safeelectricity.org](http://www.safeelectricity.org)
- Lighting Controls Association: [www.aboutlightingcontrols.org](http://www.aboutlightingcontrols.org)
- US Consumer Product Safety Commission: [www.cpsc.gov](http://www.cpsc.gov)

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23125 430th St. SE, Winger, MN 56592  
[jeff@luckentrucks.com](mailto:jeff@luckentrucks.com) or [john.lucken@luckentrucks.com](mailto:john.lucken@luckentrucks.com)

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[kezarmusic@mncable.net](mailto:kezarmusic@mncable.net) [www.kezarmusic.com](http://www.kezarmusic.com)

## RiverView Clinic Sports Physicals

Red Lake Falls

August 4<sup>th</sup> - August 8<sup>th</sup>

Regular Clinic Hours

For appointments, call 218.253.4606



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Walt Christensen, left, of Crookston and LeRoy Christensen of Red Lake Falls rested on a bench inside the replica of Fort Mandan near Washburn, N.D. They listened as the interpreter explained how Lewis and Clark and their voyageurs wintered at Fort Mandan from 1804-1805.



This photo overlooks the shoulder of the Bucyrus dragline operator as he operated the bucket of the dragline. In a typical eight hour shift, 300 to 330 buckets of overburden will be moved. The computer screen on the left records the weight and time duration of each bucket load.



Power plant tour participants listened as the dragline operator explained some of the machines features. The dragline, "Liberty," weighs a million pounds or 4,500 tons.



The bucket of the Bucyrus dragline has a 77 cubic yard rating. When empty it has a weight of 150,320 pounds. With the tour participants on the dragline, while it was operating, one of the bucket loads registered 88 cubic yards.



Before touring the coal fired generation plants, tour participants were given an overview on the operation of the plants. Each pound of coal burned produces 6,600 BTUs of energy, which is just shy of 2 Kilowatt hours.



Power plant tour participants listened to the tour guide as he explained the operation of the boiler of the coal fired generation plant. The boilers of the two generation plants use approximately 4.5 million tons of coal each year.



Emmanuel Nava, left, and Roger Schmitz, center, listened as the dragline oiler explained the role he plays on the dragline. "Liberty," the dragline, was purchased and assembled in 2004 at a cost of \$38 million; it is estimated the cost today would be \$120 million.



Participants of the 2014 Power Plant Tour enjoyed an evening banquet at the Best Western Seven Seas in Mandan, N.D. The banquet was sponsored by Minnkota Power Cooperative of Grand Forks.

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*Thank you to the following  
for your  
assistance or hospitality:  
Chuck Flage, Earl Marquis,  
Michael Hanson & Wendy Lee*







Your Guide to More Efficient and Money-Saving Light Bulbs

With new energy efficient lighting standards come new kinds of light bulbs and more choices than ever. So how do you decide which bulb is best for your home and budget?



It's as easy as 1, 2, 3...

- STEP 1

Choose bulbs based on how bright you need them to be. This is measured in lumens. The higher the lumens, the brighter the light.
- STEP 2

Once you've chosen the lumen output you need, determine which bulb has the lowest estimated energy cost per year. These will save you the most money.
- STEP 3

Finally, choose the other features you prefer, such as lifetime and light appearance. The ENERGY STAR® logo tells you which CFLs and LEDs meet minimum efficiency, lifetime and quality standards.

	YOU USED TO BUY		YOUR CHOICES NOW			
	LEAST EFFICIENT					
	Standard Incandescents		New Halogen Incandescents	CFLs	LEDs	
450 lumens	40 W \$5.34/yr		29 W \$3.87/yr	10 W \$1.34/yr	5 W \$0.67/yr	energy use energy cost per year
800 lumens	60 W \$8.02/yr		43 W \$5.74/yr	13 W \$1.74/yr	10 W \$1.34/yr	energy use energy cost per year
1100 lumens	75 W \$10.02/yr		53 W \$7.08/yr	16 W \$2.14/yr	15 W \$2.00/yr	energy use energy cost per year
1600 lumens	100 W \$13.36/yr		72 W \$9.62/yr	20 W \$2.67/yr	19 W \$2.54/yr (limited availability)	energy use energy cost per year
	TYPICAL LIFE = 1 year*		TYPICAL LIFE = 1-2 years	TYPICAL LIFE = 10 years	TYPICAL LIFE = 15-25+ years	

\* rated life is based on 3 hours of use per day

Where can I find this information?

Nearly all light bulb packages now have labels that tell you what you need to know, much like nutrition labels on food. Want to know if a particular bulb is bright enough to meet your needs? Match the lumens information from its Lighting Facts label to the table above. If a bulb claims to be a "100 watt replacement" but is only 1200 lumens, for example, it's really closer to the brightness of a typical 75 watt bulb.

- Front of package

1 Brightness

2 Estimated energy cost per year

Brightness	800 lumens
Estimated Energy Cost	\$1.69 per year

- Back of package

3 Other features

Lighting Facts Per Bulb	
Brightness	800 lumens
Estimated Yearly Energy Cost	\$1.69
Based on 3 hrs/day, 11¢/kWh. Cost depends on rates and use.	
Life	7 years
Based on 3 hrs/day	
Light Appearance	Warm
Energy Used	14 watts
Contains Mercury	
For more on clean up and safe disposal, visit epa.gov/cfl	

Install off-peak electric heating equipment and receive off-peak incentive

Any new off-peak electric heating equipment purchased and installed after May 1, 2014 qualifies for an off-peak electric heat incentive.

Members will receive \$20 per kilowatt (kW) for qualifying electric heating equipment with a maximum incentive of \$600. The electric equipment must be part of an off-peak heating system with a qualified backup heating source. The equipment must be hard wired.

Heat pumps may also qualify for the incentive. Air-source

heat pumps will receive a \$100 per ton incentive. Ground-source heat pumps will receive a \$200 per ton incentive. Heat pumps do not have to be controlled as part of an off-peak system. Any resistance or strip heat as part (121012.02, Jim Roach) of a ground-source heating system must be controlled. The maximum incentive for heat pumps is \$600.

This off-peak electric heat installation incentive is in addition to the conservation incentives offered as part of the

Cooperative's Power Savers Program.

In the wake of rising and fluctuating fossil fuel prices and with this electric heating equipment incentive, now is a great time to install off-peak electric heat.

Equip your home or place of business with a dual-fuel heating system and be set for heating seasons of the future. Call Red Lake Electric Cooperative at 218-253-2168 or 800-245-6068 for more information.

Electric Boiler-Slab Storage (Below)



Electric Plenum Heater (Above)

Qualifying electric heating equipment

- Radiant Underfloor Heat
  - Slab Storage - Electric Cable
  - Slab Storage - Electric Panels
  - Slab Storage - Electric Boiler
  - Air-Source Heat Pump
  - Ground-Source Heat Pump
  - ETS Furnace
- Baseboard Heater
  - Boiler
  - Cove Heater
  - Forced Air Furnace
  - Plenum Heater
  - Unit Heater
  - ETS Room Unit

AUTO PAY OFFERED BY RLEC

Red Lake Electric Cooperative is pleased to offer you Auto Pay. Now you can have your monthly energy bill paid automatically from your checking or savings account. You can receive the Auto Pay service by completing the Auto Pay sign-up sheet and returning it to Red Lake Electric Cooperative.

The Auto Pay service is free of charge. Not only is this service free, you will eliminate the expense of writing a check, postage to mail your payment and no more late payment penalties because your bill will be paid on time, every month, for you.

Your payment will be automatically made for you on the 5th of each month. If the 5th

falls on a weekend or holiday, the payment will be made on the next business day. You will continue to receive your monthly energy bill as you have in the past, indicating the amount that will be withdrawn from your bank account. The proof of your payment will appear on your bank statement and your next month's energy bill statement.

**Continue to pay your monthly bill until you are notified on your bill that the Auto Pay has been set up for you.**

If you have any questions about the Auto Pay please call RLEC at 800-245-6068 or 218-253-2168.

AUTO PAY SIGN-UP SHEET

I authorize Red Lake Electric Cooperative (RLEC) and the bank listed below to initiate variable entries to my checking or savings account. This authorization remains in effect until I notify RLEC in writing to cancel it in such time as to allow RLEC to act on it.

RLEC ELECTRIC ACCOUNT #

NAME (PRINT)

ADDRESS

TELEPHONE #

NAME OF FINANCIAL INSTITUTION

CHECKING ACCOUNT #

SAVINGS ACCOUNT #

SIGN HERE TO AUTHORIZE

Please return this authorization form with a blank, voided check to:  
Red Lake Electric Cooperative, P.O. Box 430, Red Lake Falls, MN 56750

Why are light bulbs changing?

In 2007, Congress passed and President Bush signed into law the Energy Independence and Security Act (EISA), improving energy efficiency for many products, including light bulbs. You can still buy incandescent bulbs that look and operate like the ones you are used to—the new ones just use less energy. The law also requires new light bulb labels to help you choose the most efficient bulbs, like LEDs and CFLs.

See the Savings on New Bulb Labels

1 Brightness

2 Estimated Yearly Energy Cost

3 Life

Lighting Facts Per Bulb

800 lumens

Estimated Yearly Energy Cost \$1.69

Based on 3 hrs/day, 11¢/kWh. Cost depends on rates and use.

Life 7 years

Based on 3 hrs/day

Light Appearance Warm

Energy Used 14 watts

Contains Mercury

For more on clean up and safe disposal, visit epa.gov/cfl

Brightness – The most important information on the label and the only way to know for sure how much light the bulb provides.

ENERGY STAR Logo – Indicates which CFLs and LEDs meet ENERGY STAR requirements for efficiency, lifetime and quality.

Life – Estimates in years how long the bulb will last. Long life bulbs save you the hassle of frequent bulb changes and help ensure that more efficient bulbs pay for themselves over time.

Light Appearance – Tells you the shade of light. Incandescents produce warm white light—between 2700 K and 3000 K. Bulbs that produce cooler or more bluish light will have a higher rating, such as 4000 K to 6500 K. Most buyers will prefer the warm white color to "daylight" or "bright white" colors.

Energy Used (watts) – Measures bulb energy use, not brightness.

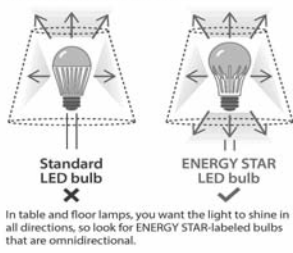
Contains Mercury – CFLs contain extremely low levels of mercury, less than 2.5 mg, and are completely safe to use in normal operation. NRDC's fact sheet ([www.nrdc.org/legislation/files/lightbulbmercury.pdf](http://www.nrdc.org/legislation/files/lightbulbmercury.pdf)) contains more information.

Some bulbs last for 1 year and others last for 10 or more. Which bulbs cost the least in the long run?

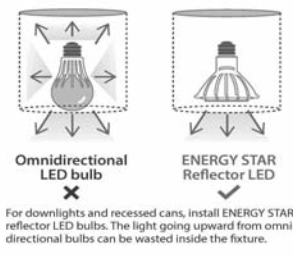
While a traditional incandescent bulb may be the cheapest to buy, the overall cost of both purchasing and powering the bulb will be far higher than an LED. Over the longer life of an LED, those savings can be more than \$50. The following table helps to illustrate why more energy efficient bulbs are the best bargain overall. Over relatively short time periods, CFLs can be a slightly better deal than LEDs, but LEDs win over the long haul due to longer life and lower energy use.

Bulb Types (all approx. 800 lumens)	Life	Costs	Year 1	Cost Annually	Total Costs over 10 years
Standard Incandescent 60 W	1 yr	Bulb Cost	\$0.50	\$0.50	\$5.00
		Energy Cost	\$8.02	\$8.02	\$80.15
		Total Cost	\$8.52	\$8.52	\$85.15
Halogen Incandescent 43 W	1 yr	Bulb Cost	\$1.50	\$1.50	\$15.00
		Energy Cost	\$5.74	\$5.74	\$57.44
		Total Cost	\$7.24	\$7.24	\$72.44
CFL 13 W	9 yrs	Bulb Cost	\$3.00	\$0.00	\$6.00
		Energy Cost	\$1.74	\$1.74	\$17.37
		Total Cost	\$4.74	\$1.74	\$23.37
LED 10 W	23 yrs	Bulb Cost	\$13.00	\$0.00	\$13.00
		Energy Cost	\$1.34	\$1.34	\$13.40
		Total Cost	\$14.34	\$1.34	\$26.40

Table lamp comparison



Recessed can comparison



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August 5 - 2:30 - 4 p.m.  
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218.253.4343

[altru.org](http://altru.org)

