

the Kilowatt

NOVEMBER 2012

published monthly for members of
Kiwash Electric Cooperative, Inc.

A SUPPLEMENT TO OKLAHOMA LIVING

Thanksgiving closing

Kiwash Electric Cooperative will close on Thursday, November 22 and Friday, November 23 for Thanksgiving. To report a power outage, please call 888-832-3362.

Happy Thanksgiving!



ENERGY EFFICIENCY

Tip of the Month

Your kitchen can yield big energy savings. Check the refrigerator door seal for a tight fit. Run only full dishwasher loads, and use the microwave rather than oven to reheat food and make small meals. Finally, unplug small appliances when not in use—many draw power even when turned off. Find more tips at **TogetherWeSave.com**.

—TOUCHSTONE ENERGY COOPERATIVES



BILL PAYMENT LOCATIONS

Kiwash Electric
120 W. 1st Street
Cordell, Oklahoma

Pay online:
www.kiwash.coop

Custer City Hall
Custer City, Oklahoma

First National Bank
Thomas, Oklahoma

More wind power for western Oklahoma *Turbines at Rocky Ridge provide power for WFEC*

The turbines are turning at western Oklahoma's newest wind farm—and electric cooperatives will benefit. Western Farmers Electric Cooperative (WFEC), power supplier for Kiwash Electric Cooperative and 22 other electric cooperatives announced that it will purchase energy generated at the Rocky Ridge Wind Project, located in Kiowa and Washita counties.

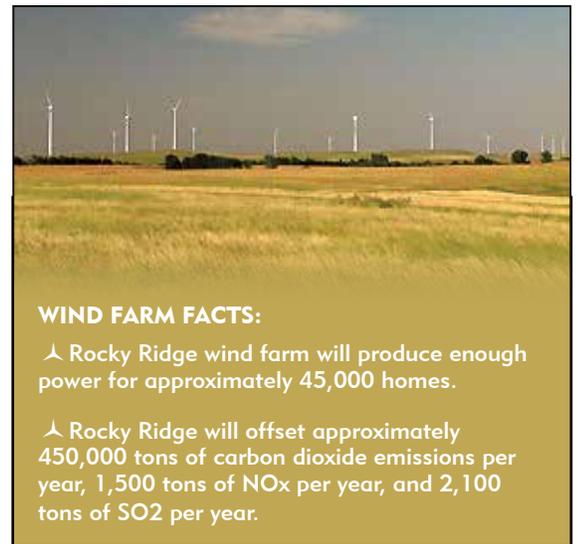
Spreading over 18,000 acres, the new wind farm has a total installed capacity of 150 megawatts and is composed of 93 turbines of 1.6 megawatts each. The project is leasing land from 75 landowners. The wind farm created some 150 jobs during construction. Now that it is fully operational, it will employ 10 people for plant

management and maintenance.

For WFEC, the Rocky Ridge site represents the fourth wind farm development to provide power for WFEC and its member cooperatives. For WFEC, the agreement to purchase power is a part of an ongoing commitment to diversify the cooperative's portfolio of generation sources.

With the latest purchase, the energy output from the above facilities will amount to approximately 15 to 16 percent of WFEC's annual wholesale energy.

"Wind is an important part of WFEC's diverse mix of generation, and plays an integral part in our overall commitment to renewable energy, as well as enabling the ability to reduce fossil fuel emissions," commented WFEC CEO Gary Roulet.



WIND FARM FACTS:

- ▲ Rocky Ridge wind farm will produce enough power for approximately 45,000 homes.
- ▲ Rocky Ridge will offset approximately 450,000 tons of carbon dioxide emissions per year, 1,500 tons of NOx per year, and 2,100 tons of SO2 per year.

Meeting the needs of 23 distribution cooperatives and Altus Air Force Base, in addition to playing an active role in technological advances aimed at reducing carbon, are essential in meeting future WFEC goals, Roulet added.

A portion of the Renewable Energy Credits (REC) produced by these wind generating facilities are

sold on a retail basis to WFEC cooperative members through the WindWorks program. The remaining RECs are sold at the wholesale level to third parties.

Kiwash Electric members who wish to support wind energy may participate in WindWorks. For details please call your cooperative at **888-832-3362**.

Support Oklahoma's clean, green wind power industry by signing up for WindWorks, a program offered by your electric cooperative. When you sign up, you are ensuring that a portion of your energy usage is supplied from a wind generated source.



To sign up, please call:
888-832-3362



**KIWASH ELECTRIC
COOPERATIVE, INC.**

*Providing the service
that lights up your life.*

Office Location

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INSIDE YOUR CO-OP



By Dennis Krueger
GENERAL MANAGER

Cold, hard facts about geothermal heating

Down to earth benefits beat out other energy alternatives

There are more and more environmentalists and other so called "tree huggers" in our society. I had a conversation the other day with one who said, "I can do very little to clean up the air for my children and grandchildren, but you, Mr. Electric Man, can do a great deal in your industry!" While the debate between coal, natural gas, wind, and solar generation is all over the national media; I beg to differ with this person on what each and every one of us can do individually.

I believe the most environmentally sound project anyone could undertake is to install geothermal heating and air conditioning units in your home or business. While installing wind and solar generators at your house may be tempting, the real win-win situation for the consumer (you), your co-op (Kiwash Electric), and the generator (Western Farmers Electric Cooperative) is geothermal. You benefit through lower utility bills all year long. Kiwash Electric benefits through better electric load factors that translate to lower wholesale rates, which can be passed on to you; and WFEC benefits by lower electric peak demand, which means the need to build a new generation plant can be postponed, another cost savings to you.

The following facts reported by Geothermal Genius, www.geothermalgenius.com deserve your serious consideration.

Popularity

- There are over 1 million residential geothermal heat pumps currently installed in the United States. That's less than one percent of the residential units in the U.S.
- Over 60,000 geothermal heat pumps are installed in the United States each year
- Over 400,000 geothermal heat pumps are shipped in the United States.

Environmental Impact

Geothermal heat pumps currently in use have resulted in:

- Saving 40 trillion Btu's of fossil fuels annually
 - Eliminating at least 1.6 million metric tons of carbon equivalent annually
 - Saving almost 8 million kilowatt hours (kwh)
 - Eliminating over 5.8 million metric tons of CO2 annually
 - Reducing electricity need by 2.6 million kilowatts (electric demand)
- Furthermore, the use of geothermal heat pumps today is equivalent to:
- Planting over 385 million trees
 - Reducing reliance on foreign

fuels by 21.5 million barrels of crude oil annually

- Removing 1.3 million cars from the road

Financial Benefits

- Geothermal systems save up to 70 percent on heating bills and 40 percent on cooling bills
- The cost per Btu of heating is significantly lower for geothermal heat pumps when compared to other heating options.

Hopefully, these numbers have converted a few of you non-believers, but if you are still skeptical ask someone who already has geothermal installed because 95 percent of current geothermal users would recommend it to their friends and given the chance would install it again!

In my opinion, your investment dollars are best spent on geothermal wells and units, rather than solar, or wind generators for your home. I welcome your comments on geothermal units or geo-wells. Please call me at the Kiwash office at **888.832.3362** or email me at dkrueger@kiwash.coop.

FIND MORE INFO ON HEAT PUMPS

- Department of Energy (<http://www.energy.gov>). Search "Geothermal."
- Climate Master (<http://www.climatemaster.com>)
- Frequently Asked Questions (<http://www.igshpa.okstate.edu/geothermal/faq.htm>)



A FEW THINGS YOU SHOULD KNOW ABOUT

Share pictures of your "mini members" in monthly *Kilowatt*

Attention parents, grandparents, doting aunts and uncles: You know all those cute kid photos you carry on your cell phone, in your wallet, and proudly display on your living room walls? Kiwash Electric wants to publish them in the *Kilowatt*.

Photos of your favorite "mini members" should be sent via mail or email to Lisa Willard, director of marketing for Kiwash Electric Cooperative. For contact purposes, please include your name and telephone number. Please provide details about the photo including names of those pictured, where the photo was taken, etc. Photos cannot be returned so be sure to make a copy before submitting.

Email photos to lwillard@kiwash.coop, or mail photos to: Lisa Willard, Kiwash Electric Cooperative, 120 W. 1st Street, Cordell, OK 73632.

Recipe Box

Double Layer Pumpkin Cheesecake

INGREDIENTS

- 2 (8 ounce) packages cream cheese, softened
- 1/2 cup white sugar
- 1/2 teaspoon vanilla extract
- 2 eggs
- 1 (9 inch) prepared graham cracker crust
- 1/2 cup pumpkin puree
- 1/2 teaspoon ground cinnamon
- 1 pinch ground cloves
- 1 pinch ground nutmeg
- 1/2 cup frozen whipped topping, thawed



DIRECTIONS

Preheat oven to 325°F.

In a large bowl, combine cream cheese, sugar and vanilla. Beat until smooth. Blend in eggs one at a time. Remove 1 cup of batter and spread into bottom of crust; set aside.

Add pumpkin, cinnamon, cloves and nutmeg to the remaining batter and stir gently until well blended. Carefully spread over the batter in the crust.

Bake in preheated oven for 35 to 40 minutes, or until center is almost set. Allow to cool, then refrigerate for 3 hours or overnight. Cover with whipped topping before serving.

Preparing a Thanksgiving feast?

Ways to save energy in the kitchen



Baking pies, roasting a turkey and warming up the side dishes for your family's Thanksgiving feast can be hard on your electric bill if you rely on your oven to do all the work. This Thanksgiving, consider using your stove

top, barbecue grill, microwave oven, slow cooker, toaster oven, electric skillet and even your blender or food processor to "cook" your bird and all the trimmings.

Here are some tips for a more energy-efficient Thanksgiving.

1. Give your oven a break and your family a treat by smoking or grilling your turkey outdoors in your barbecue grill. It's a quicker way to cook a bird, and the smoky flavor is a nice change from a traditional, oven-roasted turkey.

2. Use the microwave oven to heat up vegetables, potatoes and other side dishes.
3. Consider serving some food that doesn't need cooking. The turkey, stuffing and potatoes will be nice and hot. Add some variety to the menu by preparing a few cold salads and raw vegetables with dip. Experiment with no-bake desserts, like frozen peanut butter pie or no-bake cheesecake.
4. When you do use the oven, resist opening the door to check on the turkey or pies. Every time you peek inside, you let enough heat out that the oven has to work harder to get back to the proper temperature.
5. Bake everything at the same time: pies, bread, turkey, potatoes. The

more your oven can do at once, the less time you'll need to use it. Leave enough room between items for air and heat to circulate.

6. Choose glass or ceramic pans for the oven. They cook food at temperatures as much as 25 degrees lower than metal pans.
7. The burners on your cooktop will work more efficiently if you match the size of the burner to the size of the pot. Placing a small pot on a larger burner wastes the heat from the part of the burner that doesn't touch the pot.

Learn more ways to lower your energy costs by visiting the Touchstone Energy energy saving website, www.togetherwesave.com.

CO-OP VALUES

Keep that smile healthy!

Deep discounts on cleanings, fillings, and more with Co-op Connections

Your Co-op Connections card can help you and your family members save money at the dentist. By showing your card to participating providers, families save from 20 to 40 percent on most dental services including orthodontics, periodontics and endodontics.



Below is a savings example reprinted from the Co-op Connections website at www.connections.coop. For your convenience, we've also included a list of participating local dentists. Be sure to visit the Co-op Connections website for details on all healthcare benefits including savings on pharmaceuticals, dental, chiropractic, hearing, vision, MRIs, CT scans, lab work and more. Or call them at **800-800-7616**.

SAMPLE SAVINGS

■ PREVENTIVE SERVICES

Includes discounts on oral examinations, X-rays and cleanings.

- Oral Exams.....Save \$14
- Bitewing-4 films.....Save \$18
- Adult Cleaning Save \$24
- Child CleaningSave \$14

■ BASIC SERVICES

Includes discounts on extractions, fillings, simple oral surgery, emergency care for pain relief, and appliances for children.

- Composite anterior filling...Save \$45
- Single tooth extractionSave \$43

■ MAJOR SERVICES

Includes discounts on crowns, bridgework, root canals, complete oral surgery, and dentures.

- Composite anterior filling ..Save \$295
- Single tooth extractionSave \$21

DENTAL PROVIDERS

Oral and Maxillofacial Associates
 Alan Miyake, Oral Surgeon
 1204 E Main Street
 Weatherford , OK 73096

Malcolm Dental Clinic
 John Malcolm Jr., General Dentist
 801 W 2ND ST
 Elk City , OK 73644

Dustin C. Lively, DDS, PLLC
 James MacAlbert, General Dentist
 230 E Jefferson St.
 Mangum , OK 73554

Perry L. Brooks, DDS PLLC
 3617 W Gore Blvd., Ste B
 Lawton , OK 73505

Jack McKinnis, General Dentist
 2101 NW Ferris Ave.
 Lawton, OK 73507

FALL BACK
 NOVEMBER 4



Daylight Savings
 Time ends on
 Sunday, November
 4, 2012.

Remember to set
 you clock back by one hour before going to bed.



Hobart lights up for the holiday season during the Moonlight Madness and Christmas Tree Lighting on November 18.

COMING UP

in Kiwash Country

■ NOVEMBER

- 10 Miss Southwestern Scholarship Pageant, 7 pm, SWOSU Fine Arts Center, Weatherford
- 17 Dream League Baseball Fund Raiser Elk City Civic Center.
- 18 Moonlight Madness and Christmas Tree Lighting, Hobart
- 21-23 SWOSU Thanksgiving Break
- 23 Christmas on the Square, Cordell
- 27 Festival of Lights, Frisco Avenue, Clinton



Get your NEW card —and start saving today.

To take advantage of the latest benefits from Co-op Connections, you'll need to download your new card and print using any type of home or business printer. Download your new card at www.connections.coop.



*Be sure to take time to vote,
 it is a privilege in our country
 to choose our leader.*

Remember to vote!

November 6, 2012

*A message from your friends at
 Kiwash Electric Cooperative*

SUBMISSION DETAILS:

Kiwash Electric Cooperative promotes local festivals, rodeos, fairs and other events in our monthly newsletter, *the Kilowatt*. Calendar listings are free.



Please send details to: Lisa Willard, Kiwash Electric, PO Box 100, Cordell, OK 73632, or send e-mail to: lwillard@kiwash.coop. Please send event listings by the 10th of the month prior to publication.

If you have questions about submitting an event, or need to speak with a Kiwash representative about other matters, please call **888-832-3362**, or visit www.kiwash.coop.