

Wake ElectriConnection

For members of Wake Electric Membership Corporation



"The power to make a difference"

JULY 2009

Wake Electric to test new "smart grid" technology

Wake Electric has announced it will work with Consert, Inc. of Raleigh to test a new "smart grid" technology based on a home energy management system accessed through the Internet. The company said the pilot project will involve 100 customers primarily in the Wake Forest, Rolesville, and Youngsville areas.

Wake Electric said the 6 to 8-month pilot project is a first step toward creating a more efficient, environmentally responsible electricity grid. "This project will provide customers with improved energy use information and automation," said Jim Mangum, CEO of Wake Electric. "Our customers will be able to use new technology to have choice and control over how they use energy." The company said information learned from the pilot will be used in the future to implement "smart grid" technology on a wider, more comprehensive scale.

The energy management system is a network for of hardware and software that uses wireless two-way communications to improve the efficiency, reliability and safety of electricity delivery and use. The system also provides environmental benefits by helping utilities to reduce peak energy use and facilitating the connection of renewables and plug-in electric vehicles to the electricity grid. These benefits will assist Wake Electric's compliance with the Renewable Energy Portfolio Standards (REPS) legislation enacted by the NC General Assembly in 2007.

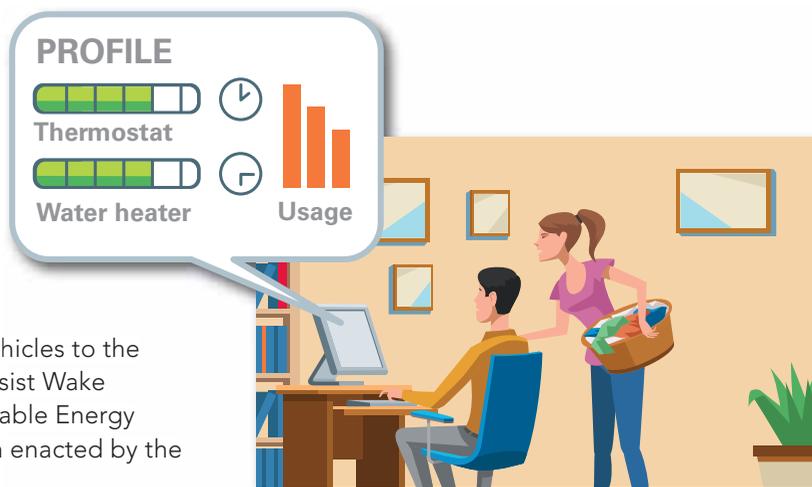
Consumers will see the technology as a device attached to their home electric meter. The device "talks" to appliances throughout the home such as the thermostat and water heater. Mangum says that the goal

is to eliminate wasted consumption, which occurs when, say, the air conditioning cools a house when no one is home. For example, a person could, through the Internet or their smart phone, set the thermostat to go up when no one is at home during the day and to come on just before anyone returns home. Profiles can be changed any time by the consumer.

Turning off or readjusting these appliances for even brief periods of time can noticeably affect daily energy use, Mangum says.

Wake Electric said its pilot program will include a wide variety of residential customers with one thing in common, a strong interest in energy and technology.

"Smart grid is the way of the future, and fits into Wake Electric's long history of helping its customers manage energy use and become more energy efficient," said Mangum.



With attentive energy management, some families may see some savings in their electric bill.

 **Wake Electric
Membership Corporation**

A Touchstone Energy® Cooperative 

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Regular office hours: M-F, 8 a.m.-5 p.m.
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Underground locating service: Call 811

How To Make Your Home Smarter

Utilizing a communications and control network to create an effective and intelligent energy management system that benefits consumers.

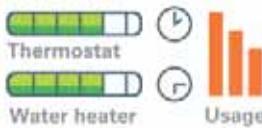
Members Gain Control

Meet the Clarks. A few months ago they opted in on a free program offered by their local utility company. The new system gives them total control to manage their energy usage and provides access to broadband. Let's see how it's working:

Managing Energy Usage

Ken and Laura manage their energy usage by first creating a profile that sets a target for energy usage and may lower their utility bills.

PROFILE



Anywhere Access

Ken can update the system from his smartphone.

Accommodates Alternative Sources

Energy sources, such as solar, generators, even wind can be managed, and power sold back to the grid.

SOLAR PANELS

Anytime Control

Laura can temporarily change their profile by using the in-home display.

I'll adjust the temperature while Mom is here.

I can make a couple of temperature adjustments...

...and maybe we'll save on our utility bill.

Efficiency Education

Energy saving information provided to customers.

We found out that a more efficient water heater would pay for itself.

Broadband Access

The Clarks added a simple device to get broadband.



With attentive energy management, some services may see some savings in their electric bill.

We're going green!

HYBRID



Wake Electric helps area homes talk to the “smart grid”

When you hear the word local, think of Wake Electric. The fact that we are a locally owned company—owned by the consumers we serve—keeps us focused on your needs and local priorities.

Your co-op’s commitment to you begins with helping you manage your energy use. That’s why Wake Electric is working with Consort, Inc. of Raleigh to test new “smart grid” technology with 100 member-volunteers. You have read in this month’s EletriConnection the details of our exciting new pilot project that will allow our members to try out the newest in energy management systems.

WHY IS WAKE ELECTRIC MAKING THIS PROGRAM AVAILABLE TO MEMBERS?

- ★ To give our members new ways to manage their energy use
- ★ To take one of the first steps in the nation towards a modern, efficient, and environmentally responsible electric grid
- ★ As part of a state approved energy efficiency program that is designed to further Wake Electric’s compliance with the Renewable Energy Portfolio

Standards (REPS) legislation enacted by the NC General Assembly in 2007.

- ★ As a local business, owned by its member-consumers and staffed by local professionals, your co-op is in a good position to listen and respond to your needs.

All these reasons point to one thing: your electric co-op and its staff are more than just an electric utility. They are an integral part of not just the community but the future of energy technology. For Wake Electric, service means reaching toward new horizons to make a life better for everyone.

Your local electric co-op is a company that cares about the people it serves. That service goes a long way beyond keeping the lights on. That’s what it’s all about—that’s the electric co-op tradition.



Jim Mangum
General Manager
Chief Executive Officer



Energy Efficiency *Tip of the Month*

Replacing just four 75-W incandescent lightbulbs with four 23-W compact fluorescent equivalents will save almost \$200 over life of the bulbs.

Source: Alliance to Save Energy

Holiday Closing

Wake Electric offices
will be closed Friday,
July 3 for

*Independence
Day*



Wake Electric awards scholarships to local students

This fall, Wake Electric will award 15 scholarships equaling a total of \$22,000 to area high-school students.



The Fred M. Alford Memorial Scholarship was awarded to **Anna Claire Dillard of Wake Forest**. She attends Wake Forest-Rolesville High School and will enroll in UNC-Wilmington in the fall.



6. Sarah Burnette Eagle of Oxford. She attends South Granville High School of Business and Global Science. She will enroll in Vance-Granville Community College in the fall.



7. Jordan Woods Fisher of Kittrell. He attends Southern Vance High School and will enroll at NCSU in the fall.



8. Jordan Scott Graham of Youngsville. He attends Franklinton High School and will go to UNC-Chapel Hill in the fall.



9. Matthew Blake Hill of Youngsville. He attends Franklinton High School and will go to NCSU in the fall.



10. Samuel Wesley Richards of Zebulon. He attends NCSU and will continue in the fall.



11. Meghan Marie Williford of Knightdale. She attends Knightdale High School and will enroll in NCSU in the fall.



12. Sarah Workman of Wake Forest. She attends North Raleigh Christian Academy and will enroll in UNC-Greensboro in the fall.

The Touchstone Energy Scholarship winners are:



1. Amber Victoria Anderson of Durham. She attends Middle College High School and will enroll at Appalachian State University in the fall.



2. Brittini Austin of Middlesex. She attends Smithfield-Selma High School and will enroll at East Carolina University in the fall.



3. Jessica Renee Barker of Louisburg. She attends Bunn High School and will enroll in UNC-Chapel Hill in the fall.



4. Robert Cleathen Bell of Louisburg. He attends Franklinton High School and will attend NCSU in the fall.



5. Emily Anne Clark of Oxford. She attends J.F. Webb High School and will enroll in UNC-Greensboro in the fall.

The following scholarship winners are not pictured:

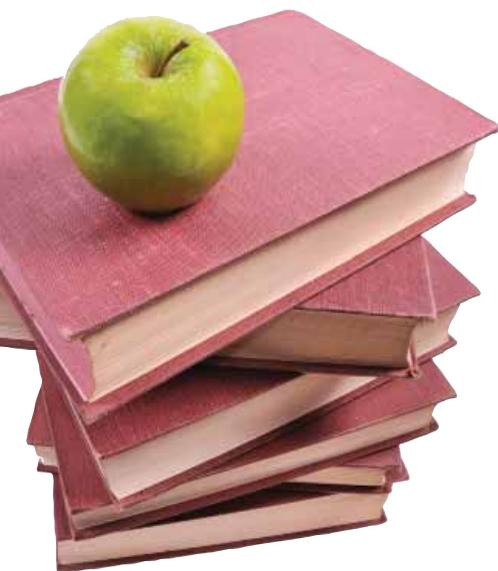
13. Ashley Anderson of Durham.

She attends Middle College High School and will enroll at Appalachian State University in the fall.

14. Betsy Ann Dickerson of Oxford.

She attends J.F. Webb High School and will enroll at NCSU in the fall.

Funding for scholarships is made possible by Wake Electric member-consumers and Wake Electric employees through the Operation Round-Up Program. For more information on Operation RoundUp or the scholarship program, visit www.wemc.com.



Ways to Help You Conserve

- ★ Inspect duct connections in your homes crawlspace or attic to verify they are sealed properly.
- ★ Make sure the insulation in your attic and crawlspace is installed correctly.
- ★ Condensation forming on windows is a sign that conditioned air is leaking from your home.
- ★ Have your central cooling system cleaned and serviced before hot weather arrives.
- ★ Keep your thermostat set at 75 degrees in the summer.
- ★ Make sure attic accesses are sealed properly to prevent excess heat from entering your home.
- ★ Do not close off unused rooms that are conditioned by forced-air systems.
- ★ When installing new air filters, make sure they are facing in the correct direction.
- ★ Do not use roof-top power ventilators for attic exhaust, as they may pull conditioned air from your home.
- ★ As outside temperatures increase, an old-fashioned clothes line becomes a great way to conserve energy.
- ★ Caulk around windows and doors or use weather-stripping where necessary.



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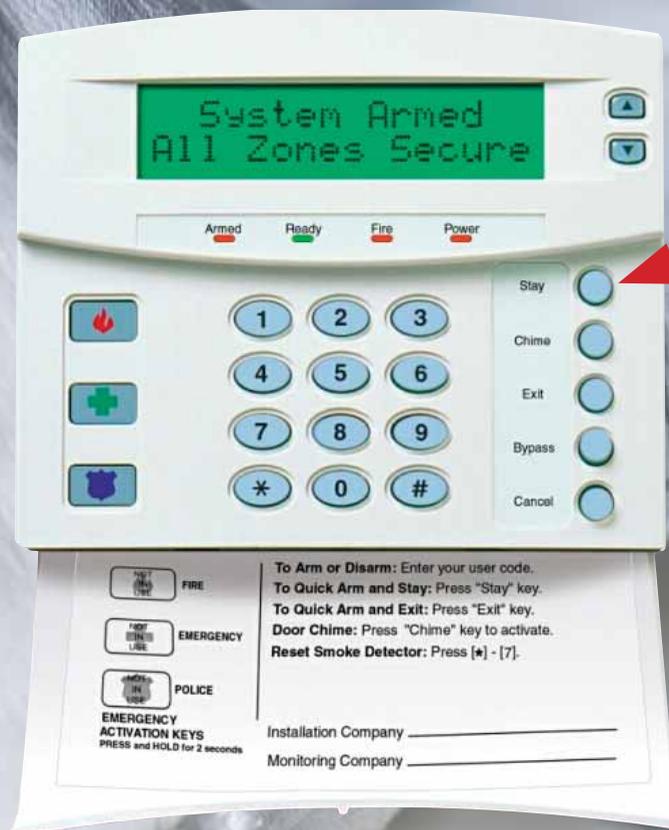
P.O. Box 1229, 414 East Wait Avenue,
Wake Forest, NC 27588, www.wemc.com

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