

A SERVICE OF THUMB ELECTRIC COOPERATIVE

January/February 2011

# MICHIGAN Country Lines



*Wings of Wonder*

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# WATERFURNACE HAS A SMARTER WAY TO HEAT YOUR HOME

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**Change of Address:** Please notify your electric cooperative. See page 4 for contact information.



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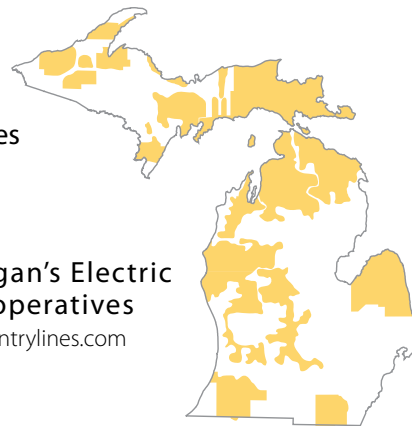
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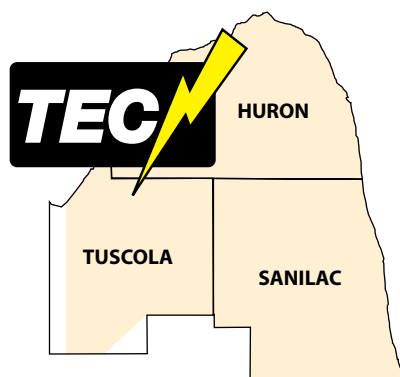
Michigan's Electric  
Cooperatives  
[countrylines.com](http://countrylines.com)

## On the Cover

Rebecca Lessard works with Bella, a  
peregrine falcon at the Wings of Wonder  
raptor sanctuary.

Photo – Andree Magsig, [drephotography.net](http://drephotography.net)





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Visit Thumb Electric's website:  
**[tecmi.coop](http://tecmi.coop)**

# New Online Bill Service Means Convenience, Control

I don't know about you, but those New Year's resolutions can sometimes be tough to stick with. As we settle into 2011, Thumb Electric Cooperative had

a goal for the New Year to have an improved customer service option for you. I'm happy to let you know that E-Bill is now available for your online business transactions.

As the internet has become such a big part of our everyday lives, more and more of you asked to be able to take care of your TEC bills online. We looked carefully for a secure system that would take care of business, but also be cost effective. Knowing that cooperatives take care of their members, we found a great partner to offer this service at less than five cents a month for each TEC member.

With E-Bill, you can now view your current electric and propane bills online. You also have the option to making payments online through your bank or credit card. So, if online bill paying is for you, then no more envelopes or stamps—just point, click and conveniently enter your monthly electric and propane meter readings. Remember to read and record the meter reading on the same day every month to ensure a consistent 30-day billing period.

Another feature at your fingertips is the ability to track your energy consumption history. This will help you save money watching, managing and controlling your energy use. Through E-Bill, access your current bill and compare it to the history

data of the account. Some of the history data includes actual bills, energy usage, monthly billings and cost, average daily cost, and more.

Further, if you have participated in any of the Energy Optimization programs offered by Thumb Electric, here is your chance to see the payoff. Maybe you added some insulation or new windows to the house, replaced an old energy-guzzling refrigerator or washing machine, or put new compact fluorescent lightbulbs in the house. Review your account online to check for lower energy consumption and the cost savings that comes with it.

If E-Bill and the internet isn't for you, Thumb Electric's popular and easy-to-use automated phone system is still available to record a meter reading or make a payment electronically. And, while these new tools are great to use, we still enjoy it when you pick up the phone or stop in to see us and take care of business in person. There will always be a smiling face available during regular working hours to talk to you and take care of business, no matter how advanced technology gets.

Whether you use E-Bill to make monthly financial transactions or to track your energy use, join the hundreds of members already signed up these first few weeks and take control of your finances and energy use. Visit [tecmi.coop](http://tecmi.coop) and access E-Bill through the "Payments/Meter Readings" option. Registering to use E-Bill is quick and simple.



**Dallas Braun**  
General Manager



**Energy Efficiency**

*Tip of the Month*

Properly hooking up your clothes dryer can help save on energy costs. The outdoor dryer exhaust door should close when the dryer is off. Check to make sure the dryer vent hose is tightly connected to the dryer and also to the inside wall fitting. The vent hose should not be kinked or clogged.

*Source: Touchstone Energy® Cooperatives*

## Notice to Members of Thumb Electric Cooperative Case No. U-15821 2009 Renewable Energy Plan Annual Report Summary

The Michigan Public Service Commission (MPSC) requires all Michigan electric utilities to get approximately 2 percent of their power supply from renewable sources by 2012 and increasing to 10 percent by 2015.

Under this requirement, Thumb Electric Cooperative submits an annual report to the MPSC regarding its Renewable Energy Plan. In 2009, Thumb acquired approximately 1,775 megawatt hours (MWh) of renewable electricity as a slice of system from its wholesale power supplier Detroit Edison.

A full copy of the cooperative's Renewable Energy Plan annual report that was filed with the MPSC is available on the cooperative's website at [tecmi.coop](http://tecmi.coop) or by request at the cooperative's office.



### *Attention:* **DAIRY FARMERS**

Thumb Electric Co-op continues to provide trained personnel to help you solve your neutral-to-earth voltage problems. If you think you have neutral-to-earth voltage, please call us at **800-327-0166**

## Notice of Rules and Rates

This **Notice of Access to Rules and Rates** is published pursuant to the rules established by the Michigan Public Service Commission as set forth in the Consumer Standards and Billing Practices for Electrical and Gas Residential Service, R460.2146 and 2149.

As a member-customer (member) of Thumb Electric Cooperative, please be advised that the following information is available to you from the cooperative, upon request:

- 1) Complete rate schedules.
- 2) Clear and concise explanation of all rates that the member may be eligible to receive.
- 3) Assistance from the cooperative in determining the most appropriate rate for a member when the member is eligible to receive service under more than one rate.
- 4) Clear and concise explanation of members' actual energy use for each billing period during the last 12 months.

## Statement of Nondiscrimination

Thumb Electric Cooperative, Inc. is the recipient of federal financial assistance from the U.S. Department of Agriculture (USDA). The USDA prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call toll free 866-632-9992 (voice) or 800-877-8339 (TDD) or 866-377-8642 (relay voice users). USDA is an equal opportunity provider and employer.



If you are a budget-minded person, levelized billing may be right for you!

## Is Levelized Billing For You?

If you are a budget-minded person, Thumb Electric Cooperative's (TEC) levelized billing program may be right for you.

### How does it work?

To determine what you must pay each month, your co-op takes the following steps:

- Each month, the previous 11-month kilowatt-hour usage is added to the current-month kilowatt usage.
- The 12 months of use is divided by 12 to obtain a monthly average kilowatt consumption.
- These kilowatts are then billed at the current monthly rate.
- For each month thereafter, the same formula is used.

### What is the advantage?

There are no high or low billings. For example, with standard billing, winter kilowatt usage tends to be higher than summer usage.

Unlike our budget billing program, there is no catch-up month. Under budget billing, you are billed a fixed amount each month for 11 months. On the 12th month, you are billed for those kilowatt hours to catch up for the year. With levelized billing, your monthly bills remain within a few dollars of the previous month's bill.

### How do I qualify?

To qualify for levelized billing, you must have a good credit record, remain current with monthly payments, and have 11 months of billing history.

Let levelized billing work for you. For more information, call TEC at 989-658-8571 or 800-327-0166.

# Lt. Gov. Calley Talks With Co-op Directors, Managers

**B**rian Calley (R-Portland), Michigan's new lieutenant governor, visited with the Michigan Electric Cooperative Association (MECA) board of directors in December to share insight on the plans of incoming Gov. Rick Snyder.

"Republicans have a lot to prove to people," Calley said, but added that he believes their politics match with Snyder's philosophy. Quoting from the Bible, Calley said that means "treat others the way you want to be treated."

"Bad tactics burn bridges and make the state's problems more acute," he explained, saying that we now have an opportunity with Snyder to build a team of the best people from both sides of the state and political aisles.

Calley particularly lauded Snyder's choice of former Lt. Gov. Dick Posthumus as a senior advisor. Snyder's agenda will be aggressive and he's already given his team six-month timelines on some projects.

As to the state's "leaky ship" budget (a \$1.6 billion hole), Calley said Snyder has a 10-point

turnaround plan and will take measures that pay for results instead of just activities, while holding people accountable for the use of taxpayer dollars. Snyder wants to propose solutions that will fix the budget beyond the current year and will start by working early to change and simplify the Michigan Business Tax to a flat 6 percent of business profits.

Over 4,600 people took the state's retirement incentive, Calley said, saying it's a good chance to make changes, but 90 percent of those vacancies will not be filled.

Another plan is to make a government that provides good customer service to people, believing that the system now shies away from making decisions. Snyder, an Ann Arbor businessman, intends to "employ the same principles of business to government, but the difference will be there's no profit motive," Calley said.

On energy policy, Calley said utilities have been given a lot of input and Snyder will be "trying to get the MPSC and energy policy under control."



New MECA President and CEO Craig Borr is pictured (L-R) with Lt. Gov. Brian Calley, MECA lobbyist Sue Schlaybaugh, and Brian Burns, MECA board chairman and president/CEO of Presque Isle Electric & Gas Co-op.

## Scholarships Offered

Each year, the Michigan Electric Cooperative Association awards two \$1,000 scholarships to qualifying applicants. Individuals are chosen based on their scholastic achievement and extracurricular involvement during their high school career.

The applicant's parent or guardian must be a member or employee of a Michigan electric co-op, and the applicant must be planning to attend a Michigan college or school full-time.

Selection will be based on grade point average, character, leadership, academic achievement, extracurricular and community activities, and essay response.

Applications are available

at [countrylines.com](http://countrylines.com); click on "Youth," email [wolford@countrylines.com](mailto:wolford@countrylines.com), or call 517-351-6322, ext. 205. Eligible applications must be post-marked by April 4, 2011.

## MYSTERY PHOTO

Everyone who identifies the correct location of the photo below by **Feb. 10** will be entered in a drawing for a **\$50 coupon redeemable for electricity from your electric cooperative.**

Call in your entry to *Country Lines* at 517-351-6322, ext. 306, email [jhansen@countrylines.com](mailto:jhansen@countrylines.com), or mail it to *Country Lines*, 2859 W. Jolly Road, Okemos, 48864. Include your name, address, phone number and co-op. The winner will be announced in the March 2011 issue.

The **Nov./Dec.** contest winner is **Vickie Severance of Hessel**, who correctly identified St. Anthony's Rock in St. Ignace.



**Do you know where this is? ▶**



## Recycled Paper

*Michigan Country Lines* is printed on recycled paper from FutureMark Paper, which taps the "urban forest" of waste paper thrown out in Chicago every day. Using recycled paper reduces the carbon emitted in paper production, the paper deposited in landfills, and water and air pollution. The energy to produce recycled paper is about one-half that required to make paper from pulp.

## The Value of Electricity A dollar's worth can get you:



Sources: U.S. Department of Energy; National Rural Electric Cooperative Association





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## Thanks & Giving

We have the opportunity to work the 4th Friday of the month at the East Side Soup Kitchen in Saginaw, and I am amazed at the ability of Pam Cole and her staff to find and provide food for approximately 250 to 400 people a day, five days a week. It's a humbling experience.

You've written a great article ("Thanks & Giving," Mike Buda, Nov-Dec); hope you are enjoying your retirement.

—Karl DeSimpelare, Unionville

## Muncie Lakes Pathway

If only the Muncie Lakes Pathway was as majestic as you made it sound ("Our First Snow Trail," Don Ingle, Nov-Dec). The person who wrote the article has obviously not been there recently. No one would want to walk or ski there with the way it looks now. Logging trucks and men cutting the forest down is what you would see. The devastation and slaughter of our local forests for the Cadillac biomass plant has taken it all away from us.

For the public's safety, I advise to stay away from the Pathway. Who was it that sold out our forests here and on the other side of the Boardman River down Brown Bridge Road?

—Joan Costley

*Contrary to the letter writer's opinion, I have observed the Muncie Lakes Pathway's current status. In response to her complaints, I offer these observations:*

► *As part of the Pere Marquette State Forest, the area is managed for many purposes. One is to create small openings (savannas) of prairie-like habitat that support many animal and plant varieties, including rare or threatened species.*

► *Thinning of older, weaker or diseased oaks helps prevent the spread of oak wilt, a disease that continues to kill thousands of oak acres in Michigan's northern forests.*

► *Muncie Lakes Pathway itself is well-buffered; hikers or skiers will have no obstacles to their use and it remains much the same as before recent forestry efforts.*

► *The timber removed and sold puts money back into the state coffers to pay for many forestry and fire protection programs. The tops are chipped, removed and sold to biomass consumers to produce cleaner, green energy, again adding to needed state revenues and leaving the savanna areas as places to find greater biodiversity within the forest.*

*The early stages of forest harvests may seem negative, but a return to view the same areas within a few years will show the dynamic ability of the managed forest to restore itself.*

*For now, the skier or hiker will find Muncie Lakes Pathway open for business as usual this winter.*

—Don Ingle

## Dan Bonner Lives On

My name is Dan Bonner—the LIVING Dan Bonner and 59-year-old son of the Dan Bonner about whom Mr. Ingle wrote in his article, "Our First Snow Trail" (Nov-Dec 2010).

Words are such feeble expressions about how touched me and my mother (his widow) and my siblings were upon reading this wonderful tribute to my

father!! Especially after all these years! Dad died in October 1979.

Most of our family still lives near Traverse City...and we enjoy hiking and skiing these trails that Dad left behind for ALL the people. I think often of the great legacy he left the people of Michigan with these beautiful wilderness areas and activities.

Mr. Ingle's tribute is a great gift to Dad's memory and our family. I could not let his tribute to Dan Bonner Sr. go unacknowledged by a grateful family.

—Dan Bonner Jr.

## Recycled Paper

I enjoy receiving your magazine filled with many good ideas and tips for saving energy. I like the fact that you are continually looking for ways to insure that consumers receive the best and most efficient energy possible, and are making a concerted effort to listen to your customers.

I wrote a letter to the editor that never got published in your magazine. And, each time I receive your magazine I am made aware that you are eco-friendly by using recycled paper to print it on. I am as dedicated as the next person when it comes to saving the environment...however, I want to know why you have to go to Chicago to get the waste paper for this? It seems a large waste of expenses when Michigan is starving for jobs, new industries and economic development. If we do not have the capability in our own state for recycling paper products, might I suggest that you look into creating one? A joint effort with local towns, Chambers of Commerce, and a willing work force could reap benefits for years to come.

I would like to know your thoughts on this and your response to why we go out-state to buy paper for the magazine.

—Patricia Donegan, Stanwood

*You raise good questions, however, if the kind of recycled paper needed for the magazine were produced in Michigan we'd probably buy it.*

*Unfortunately, paper manufacturing is an extremely competitive business on an international scale and we don't have the expertise or money to get involved in that arena. The recycled paper business is especially brutal, and we were lucky to find one as close as Chicago.*

*As to reader letters, we try to use as many as possible, but there isn't always space to print and still keep the content timely.*

—Ed.

## Idea for Keeping Warm & Saving Energy

I would like to have a message written for those people that will be suffering with cold homes this winter...I have found that wearing a small, lightweight ski cap to bed can keep me very much warmer and comfortable. I also very often wear a cap during the day. Unless you have tried this, you will not think it a great idea.

I think it would be a great idea to introduce to schools, too...the heat could be turned down another 5 degrees if the children wore hats and they would still be comfortable and at the same time saving on the school's heat bill.

Of course, at first, most of you are going to laugh and howl, but the schools know how to introduce these things. Maybe the principals, teachers and helpers could start the trend. A fancy, expensive ski hat is not needed...I got two at \$1 a cap. They were a smaller size, but you only need to cover the top of the head. And no, I don't think you will lose your hair—I have not.

My reason for writing this is, I am quite sensitive to the cold and think of the families that are not going to have much heat this year AND the children AND the schools' higher heat bills.

I realize there would have to be some or a lot of organization within the schools, but once this idea is introduced and people see the sense in it I am sure organizations would gladly give to this cause.

I find it one of the greatest comforts of my winter days.

—Carolyn Laarman

## Tell us about your favorite Michigan-made products!

Share a few paragraphs with us about your favorite Michigan-made product and we may write about it. Be sure to share why you like it and if you have a unique story to go with it, please send that, too. Email by March 10 to [czuker@countrylines.com](mailto:czuker@countrylines.com) or send to: Country Lines, 2859 W. Jolly Road, Okemos, MI 48864.

## If You Smell Gas...

**D**id you know that propane gas has no odor? The “rotten egg” smell is added for your safety, to help alert you to any possible leaks. If you smell gas in the house, or if you have a gas alarm that signals the presence of gas, immediately follow these safety guidelines:

### No flames or sparks!

Immediately put out all smoking materials and other open flames. Do not operate lights, appliances, telephones, or cell phones. Flames or sparks from these sources can trigger an explosion or fire.

### Leave Immediately!

Get everyone out of the building or area of the suspected leak.

### Shut off the gas.

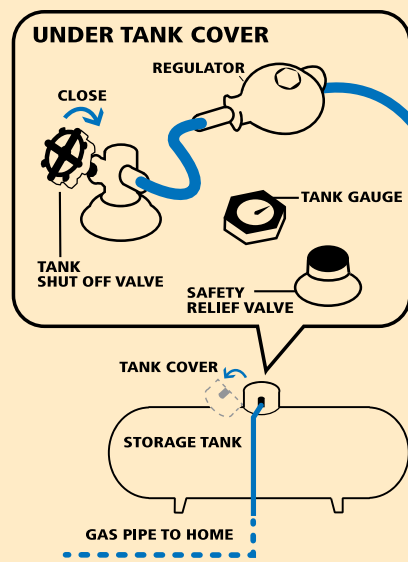
Turn off the main gas supply valve on your propane tank if it's safe to do so. To close the valve, turn it clockwise (see diagram below).

### Report the leak.

From a neighbor's home, call Thumb Electric at 800-327-0166 right away. If for some reason you can't reach us, call 9-1-1 or your local fire department.

### Stay away.

Do not return to the building or area until we have determined that it is safe to do so.



## Why Do We Send You Country Lines?

**A**s a member of Thumb Electric Cooperative, you receive *Michigan Country Lines* magazine in your mailbox six times every year. Sure, it's full of great articles, valuable energy-saving tips, and—of course—delicious recipes. But why does your electric co-op send you this magazine?

*Country Lines* is the most economical and convenient way to share information with our members. It takes the place of many mailings we would otherwise make to get information to you about our services, director elections, member meetings, and the staff and management decisions you should know about as an owner of the co-op. The magazine also carries legal notices that would otherwise have to be placed in local media at a substantial cost.

And, sending *Country Lines* to you helps the co-op fulfill one of its basic principles—to educate and communicate openly with its members.

The board of directors authorizes the co-op to subscribe to *Country Lines* on your behalf at a cost ranging from \$3 to \$4 per year, paid as part of your electric bill. The current magazine cost is 42 cents per copy, less than the cost of a first-class stamp.

*Country Lines* is published for us, at cost, by the Michigan Electric Cooperative Association in Okemos. As always, we value your comments about your magazine.



## A Warning About Downed Power Lines



**W**inter weather and car accidents are a main cause of downed power lines. Consumers should use extreme caution if they encounter a downed power line.

Downed power lines can carry an electric current strong enough to cause serious injury or possibly death. Assume that any downed line you see is an energized power line, and report it immediately to the police, fire department, and Thumb Electric Cooperative.

Here are other tips to help you stay safe:

- If you see a downed power line, move away from the line and anything touching it.
- The proper way to move away from the line is to shuffle away with small steps, keeping your feet together and on the ground at all times. This will minimize your chance of being a human path for electric current and minimize the hazards of electric shock. Electricity can move from a high voltage zone to a low voltage zone, and it can do that through your body.
- If you see someone who is in direct or

indirect contact with a downed power line, do not touch the person. You could become the next victim. Call 9-1-1 instead.

- Do not try to move a downed power line, or anything in contact with it, by using another object such as a broom or stick.
  - Even nonconductive materials like wood, if slightly wet, can conduct electricity and then electrocute you.
  - Be careful not to put your feet near water where a downed power line is located.
  - If you are in your car and it is in contact with the downed power line, stay in your car. Honk your horn for help or call 9-1-1, and tell others to stay away from your vehicle.
  - If you must leave your car because it's on fire, jump out with both feet together to avoid contacting the live car and the ground at the same time. This reduces the risk of becoming part of the path of electricity from the car to the earth. Shuffling away from the car is also important.
  - Do not drive over downed power lines.
- For additional safety information, visit [electrical-safety.org](http://electrical-safety.org)



# A New Year Brings Big Changes at Country Lines

Change is inevitable.” I don’t know who first said that, so I looked to Google for the answer and received 25,900,000 possible results. No help there. Then I looked it up in a book of famous quotations. Nothing.

Either way, this often-used phrase now applies to me. After 15 years at *Country Lines* and the Michigan Electric Cooperative Association (MECA), this will be my last “Comment” as I am leaving in early January to take up a position with another energy company.

I have spent the last few weeks going through files and sharing information with others in the office and my successor to ensure that they have the history of the many legislative and regulatory “battles” we have fought on behalf of the electric cooperatives and you, their members.

## Working Together Statewide

Working through MECA, the cooperatives have successfully:

- held down utility costs by reducing personal property taxes applicable to electric utility property;
- held down electric rates by insuring that the state’s recently adopted Michigan Business Tax did not unfairly impact your cooperative;
- reduced the impact of customer choice legislation so that the cost to your cooperative for implementing the program was minimal;
- fought the state tax commission’s efforts to increase the cooperatives’ property taxes, which saves our cooperatives almost \$1 million;
- saved our cooperatives more than \$1.8 million when we blocked a Michigan Public Service Commission (MPSC) plan to advertise and promote customer choice for residential customers when no real choice existed;
- worked to protect cooperatives from losing service area to other utilities, which would result in higher costs to cooperatives;
- worked to ensure that the state’s renewable energy and energy efficiency standards recognized that cooperatives are different than other utilities (nonprofit, customer-owned).

**Michael Peters**  
is president and CEO  
of the Michigan Electric  
Cooperative Association.  
His email is [mpeters@countrylines.com](mailto:mpeters@countrylines.com)



- passed legislation in 2008 that allows each cooperative to decide whether to continue regulation under the MPSC or become “member-regulated” by their locally elected board of directors.

## On the Federal Level

In Congress, we weighed-in on issues including:

- greenhouse gas regulations;
- continuation of Rural Utilities Services lending programs; and
- promotion of rural economic development and progress.

## Through This Magazine

Over the last 15 years we have also made substantial changes, all for the better, to *Michigan Country Lines* magazine so that our cooperatives can continue communicating with you for about the cost of a first-class stamp.

## For Safety and Service

Our loss control and safety program employees have spent thousands of hours training your cooperative’s lineworkers, all with a commitment to keeping these crews safe and keeping the lights on.

I am proud of our accomplishments, and there are dozens of other examples where “working together” has led to better service, a safer working environment, and savings for your cooperative and ultimately, your wallet.

As for my successor, the MECA board of directors has selected Craig Borr (see below) to take over the helm at MECA. He is an excellent choice, with an extensive background in the electric utility industry. Craig has over 26 years of utility and, most importantly, cooperative utility experience to draw on and has worked side-by-side with me on many legislative and regulatory issues in Lansing and in Washington, D.C.

Although change is inevitable and I have no doubt MECA will change over the next 15 years, one commitment will not—the commitment to work for the cooperatives’ benefit, and through them for the benefit of their member-consumers—that’s you!

Take care.

## Craig Borr is New Co-op Leader

Craig Borr will be the next president and CEO of the Michigan Electric Cooperative Association (MECA), which publishes *Michigan Country Lines* magazine.

“Craig’s strong leadership and in-depth knowledge of the industry, Michigan’s electric cooperatives, and the political front in Lansing and Washington, D.C., make him the ideal person to lead the association,” said Brian Burns, chairman of the MECA board of directors.

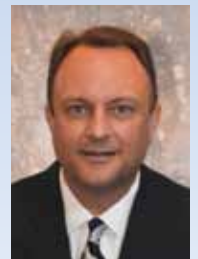
Borr, who starts this month, is currently the executive vice president of Wolverine Power Cooperative, in Cadillac. Wolverine is the state’s only generation and transmission cooperative and is owned by and supplies wholesale electric power to its six members, including four distribution co-ops (Cherryland, Great Lakes Energy,

HomeWorks Tri-county, and Presque Isle Electric & Gas Co-op).

In his 25-year career with Wolverine, Borr was actively involved in all aspects of the utility business, with a concentration on public policy and regulatory issues over the last several years.

Borr has a degree from Central Michigan University, and was chosen unanimously by the MECA board.

MECA is the statewide service organization for Michigan’s 11 electric co-ops, which provide electricity to the homes, farms and businesses of over 600,000 people in rural areas covering one-half of the state.



# Who's your Legislator?

► **Find Your State Representative**  
at [house.mi.gov](http://house.mi.gov)

The 35 representatives shown are members of a House of Representatives that swung to a Republican majority of 63-47 with the November election—a 20-seat swing. Most of them developed their political skills in local government, which has proved to be the natural stepping-stone in this era of term limits.

Whatever their background, most represent districts with large rural populations—areas where electric co-ops serve. Several of the

representatives are electric co-op members themselves; 25 were elected for the first time in November.

Legislation affecting cooperatives and their owners most likely originates in those committees covering utilities, energy, transportation, environment, land use, safety, or taxes. Find a list of committees and their chairmen, members and schedules at [house.mi.gov](http://house.mi.gov) and [senate.mi.gov](http://senate.mi.gov) (see p. 12 for information on senators).

## Ontonagon



110th District (R)  
**Matt Huuki**  
1st Term  
517-373-0850

## Alger Delta



108th District (R)  
**Ed McBroom**  
1st Term  
517-373-0156



109th District (D)  
**Steven Lindberg**  
3rd Term  
517-373-0498



110th District (R)  
**Matt Huuki**  
1st Term  
517-373-0850

## Thumb



83rd District (R)  
**Paul Muxlow**  
1st Term  
517-373-0835



84th District (R)  
**Kurt Damrow**  
1st Term  
517-373-0476

## Midwest



55th District (R)  
**Rick Olson**  
1st Term  
517-373-1792



57th District (R)  
**Nancy Jenkins**  
1st Term  
517-373-1706



59th District (R)  
**Matt Lori**  
2nd Term  
517-373-0832

## Presque Isle



105th District (R)  
**Greg MacMaster**  
1st Term  
517-373-0829



106th District (R)  
**Peter Pettalia**  
1st Term  
517-373-0833



107th District (R)  
**Frank Foster**  
1st Term  
517-373-2629



61st District (R)  
**Margaret O'Brien**  
1st Term  
517-373-1774



63rd District (R)  
**Jase Bolger**  
2nd Term  
517-373-1787



78th District (R)  
**Sharon Tyler**  
2nd Term  
517-373-1796



80th District (R)  
**Aric Nesbitt**  
1st Term  
517-373-0839



## Cloverland



107th District (R)  
**Frank Foster**  
1st Term  
517-373-2629



108th District (R)  
**Ed McBroom**  
1st Term  
517-373-0156



109th District (D)  
**Steven Lindberg**  
3rd Term  
517-373-0498

## Cherryland



101st District (R)  
**Ray Franz**  
1st Term  
517-373-0825



104th District (R)  
**Wayne Schmidt**  
2nd Term  
517-373-1766

## HomeWorks



65th District (R)  
**Mike Shirkey**  
1st Term  
517-373-1775



67th District (D)  
**Barb Byrum**  
3rd Term  
517-373-0587



70th District (R)  
**Rick Outman**  
1st Term  
517-373-0834



71st District (R)  
**Deb Shaughnessy**  
1st Term  
517-373-0853



87th District (R)  
**Mike Callton**  
1st Term  
517-373-0842



93rd District (R)  
**Paul Opsommer**  
3rd Term  
517-373-1778



97th District (R)  
**Joel Johnson**  
1st Term  
517-373-8962



99th District (R)  
**Kevin Cotter**  
1st Term  
517-373-1789



102nd District (R)  
**Phil Potvin**  
1st Term  
517-373-1747

## Great Lakes



70th District (R)  
**Rick Outman**  
1st Term  
517-373-0834



73rd District (R)  
**Peter MacGregor**  
1st Term  
517-373-0218



74th District (R)  
**David Agema**  
3rd Term  
517-373-8900



87th District (R)  
**Mike Callton**  
1st Term  
517-373-0842



88th District (R)  
**Bob Genetski II**  
2nd Term  
517-373-0836



89th District (R)  
**Amanda Price**  
1st Term  
517-373-0838



90th District (R)  
**James Haveman**  
2nd Term  
517-373-0830



91st District (R)  
**Holly Hughes**  
1st Term  
517-373-3436



100th District (R)  
**Jon Bumstead**  
1st Term  
517-373-7317



101st District (R)  
**Ray Franz**  
1st Term  
517-373-0825



102nd District (R)  
**Phil Potvin**  
1st Term  
517-373-1747



104th District (R)  
**Wayne Schmidt**  
2nd Term  
517-373-1766



105th District (R)  
**Greg MacMaster**  
1st Term  
517-373-0829



107th District (R)  
**Frank Foster**  
1st Term  
517-373-2629

# Who's your Senator?

► Find Your State Senator  
at [senate.mi.gov](http://senate.mi.gov)

The 2010 election saw the Republicans take a 26-seat majority in the Michigan Senate. The new faces include 13 in co-op service areas. All are former representatives. Only one, Gretchen Whitmer, is a Democrat.

The senators on this page represent districts that overlap electric co-op service areas. Although electric co-op issues are but a small part of their overall responsibilities, they have generally been supportive of the co-op agenda, which rests on the premise that as self-governed, member-owned and not-for-profit utilities, co-ops and their members ought to be treated differently than for-profit utilities.

## Thumb



31st District (R)  
**Mike Green**  
1st Term  
517-373-1777

## Alger Delta



38th District (R)  
**Tom Casperson**  
1st Term  
517-373-7840

## Ontonagon



38th District (R)  
**Tom Casperson**  
1st Term  
517-373-7840

## Cloverland



37th District (R)  
**Howard Walker**  
1st Term  
517-373-2413



38th District (R)  
**Tom Casperson**  
1st Term  
517-373-7840

## Cherryland



35th District (R)  
**Darwin Booher**  
1st Term  
517-373-1725



37th District (R)  
**Howard Walker**  
1st Term  
517-373-2413

## HomeWorks



22nd District (R)  
**Joe Hune**  
1st Term  
517-373-2420



23rd District (D)  
**Gretchen Whitmer**  
2nd Term  
517-373-1734

## Presque Isle



36th District (R)  
**John Moolenaar**  
1st Term  
517-373-7946



37th District (R)  
**Howard Walker**  
1st Term  
517-373-2413

## Great Lakes



24th District (R)  
**Rick Jones**  
1st Term  
517-373-3447



28th District (R)  
**Mark Jansen**  
2nd Term  
517-373-0797



30th District (R)  
**Arlan Meekhof**  
1st Term  
517-373-6920



33rd District (R)  
**Judy Emmons**  
1st Term  
517-373-3760



34th District (R)  
**Geoff Hansen**  
1st Term  
517-373-1635



35th District (R)  
**Darwin Booher**  
1st Term  
517-373-1725



36th District (R)  
**John Moolenaar**  
1st Term  
517-373-7946



37th District (R)  
**Howard Walker**  
1st Term  
517-373-2413



24th District (R)  
**Rick Jones**  
1st Term  
517-373-3447



32nd District (R)  
**Roger Kahn**  
2nd Term  
517-373-1760



33rd District (R)  
**Judy Emmons**  
1st Term  
517-373-3760



35th District (R)  
**Darwin Booher**  
1st Term  
517-373-1725

## Midwest



16th District (R)  
**Bruce Caswell**  
1st Term  
517-373-5932



20th District (R)  
**Tonya Schuitmaker**  
1st Term  
517-373-0793



21st District (R)  
**John Proos**  
1st Term  
517-373-6960



# Who's Afraid of an Empty Nest?

**H**ave you noticed? So few parenting moments unfold the way we picture them (aided by Hollywood and Madison Avenue, of course).

Those well-groomed magazine mommies snuggling with sleeping newborns? Forget about it.

Pre-teens chatting happily with their parents over a hot breakfast? Ha!

Cheerful children singing their way cross-country in a spotless mini-van? (Actually, group singing did erupt once in our not-so-spotless minivan. It was in 1998, and it still warms my heart. But I digress.)

I shouldn't wonder, then, that the "empty nest" has not matched its hype. With apologies to my children, whom I love very much, I am not experiencing what Wikipedia calls a "lonely, abandoned feeling."

This, I understand, is not a universal experience. Google "empty nest" and you'll find 713,000 sites offering explanations and advice. Clearly, many, many parents struggle when their children leave home for good.

As holiday visits wind down and we send our adult children out the door with extra-tight hugs and a sigh of relief, I'm reflecting on our comparatively smooth transition out of 24/7 family life. I can't match the advice by real experts—online and otherwise—but I can tell you what has worked for us.

## **Prolong your parenting as long as possible.**

Stretch childbearing over more than a decade, and by the time your last baby trudges off to college, you'll have shared space with your progeny for nearly 30 years. That's a long time to be laundering socks and wondering where your hairbrush went. The relief of reclaimed liberty will soften the blow of being left behind.

If you lacked the foresight to plan ahead, don't despair. Delightful delays are still possible. Our favorite has been a serendipitous daughter who moved into our home two days after our youngest moved out, propelled there for her senior year by a confluence of



© iStockphoto.com/Mark Bowden

circumstances beyond her control. You might also encourage your children to befriend international students for whom travel home is not an affordable option.

## **Multiply your options.**

If delay tactics aren't possible, encourage adult children to enhance the impact of their visits home. So far, we've acquired a new daughter and two terrific sons through marriage. This option has had the added benefit of adding—joy of joys!—three tiny offspring to the crowd that gathers for all major holidays and occasional weekends. Compounding this solution with the aforementioned "prolonged parenting" effectively emptied our nest of playthings and picture books for roughly 13 minutes—short enough to avoid any serious brush with the blues.

Which reminds me—hang on to as much stuff as you can. It's hard to feel a void when, even after the exodus of permanent residents, your nest remains not all that empty. This is much easier to accomplish than you might imagine. If your kids are like mine, they'll leave behind piles of detritus.

Only one phenomenon threatens this strategy. Each time a child departs—and I've confirmed this with other left-behind parents—you might experience an extraordinary urge to purge, sort, clean and restore a sense of order to your world. It's commonly held that a "nesting" impulse propels soon-to-be parents into a frenzy of preparation for the new arrival. However, this "reverse nesting" is not widely discussed.

And, why not? There's something deeply

satisfying about rediscovering the furniture and carpet that was buried for years under clothes, collections, shoes, shin guards, Oreo crumbs, spilled milk and (dozens and dozens of) folded notes...

*Except...* about three garbage bags and a half-bottle of disinfectant into the task, memories start to surface. You toss aside a high-school textbook (with a vow to return it to the taxpayers) and uncover a photo from that once-in-a-lifetime trip you chaperoned. You move a bookshelf and there he is—that little Lego® astronaut you haven't seen since second grade. All of a sudden, it hits you—it's not just stuff you're sorting. It's the remains of a life into which you've poured your heart and soul.

So, you move a little more carefully through the task. You discard the smelly, damaged goods, and display the loveliest pieces on newly polished shelves. You tuck away out-grown hobbies to share one day with your child's own child. You capture memorable moments into a photo collage. All in all, you distill 18 years of cluttered and untidy living into what you hope is a tribute to the journey you've shared.

At some point, you suspect you've reclaimed more than just a room in your house. Memory by memory, order arises out of the chaos that defines the process of parenting teenagers. You sweep away frustration, discard tired arguments, showcase what's lovely, and wrap a ribbon of meaning around decades of frenetic activity.

Keep at it long enough and you find, to your surprise, the nest feels not so much empty, as ready for a reunion with someone you've loved for a long, long time.

**Linda Wacyk**  
is a regular *Country Lines* freelance writer, educator, grandmother and content empty-nester.





A woman with short grey hair, wearing a dark blue jacket, blue jeans, and tan boots, stands in a large wooden aviary. She is holding a large turkey vulture by its wings. The bird has dark feathers and a pinkish-red head. The aviary has a wooden floor and walls made of vertical wooden slats. The ceiling is made of horizontal wooden planks. The text "Wings of Wonder" is written in a large, stylized, brown font with a white outline, positioned in the lower right area of the image.

# Wings of Wonder

Rebecca Lessard, of Wings of Wonder raptor sanctuary, holds Doolin, a turkey vulture that serves as an ambassador raptor by accompanying her to educational presentations. She says he entertains audiences and wows them with his curious personality (he liked the photographer's boot laces) and good looks.



Rebecca Lessard smiles when she is referred to as “the Mother Theresa of the raptor world.” But there are few who would disagree with the difference she is making with her nonprofit Wings of Wonder sanctuary as she rehabilitates 45 to 75 birds of prey each year.

“When I started 20 years ago, my intent was to rehabilitate three to four raptors each year...sort of my contribution to the planet,” says Lessard, who lives between Traverse City and Empire, just off M-72 in Leelanau County. Power to the Lessard property is supplied by Cherryland Electric Cooperative.

“But the universe had other intentions and that first year I admitted 12 injured raptors, which required additional flight enclosures to be built by my husband,” she explains. “Now, we not only rehabilitate raptors, we also present 150 educational programs each year, with live raptors, to schools, camps, libraries, clubs and community organizations, reaching 9,000 people.”

Lessard’s degree is in biology and she specialized in working with mammals. But 20 years ago a friend came to her with an injured red-tail hawk.

“I didn’t particularly want to work with it, but a veterinary friend offered to help,” she says. “As soon as I had that red-tailed hawk in my arms, I was hooked.”

She did an internship at the Minnesota Raptor Center, then applied for mandatory state and federal permits to rehab raptors.

“I convinced my husband Don to build me one flight pen where the birds could fly,” she says.

That was in 1990. Twenty years and 13 flight enclosures later she and her birds are flying high, even though a controversial legal struggle between Wings of Wonder and the Leelanau County Road Commission “may force us to close,” says Lessard.

This legal challenge—involving a road that runs right past the bird enclosures—has also put extreme financial pressure on the small nonprofit organization. Money that could have been used towards surgery for an injured bald eagle or a peregrine falcon has now been used to pay legal bills. Scholarship money that could have provided raptor programs to local schools is now gone because of the mounting legal bills. Wings of Wonder is only one of three dedicated raptor rehabilitation and education centers in Michigan.



Photos - Andree Magsig, dphphotography.net

Eoin (pronounced “Owen”) is a 21-month-old great horned owl. A leg injury incurred as a tiny chick resulted in a permanent disability that keeps her from being returned to the wild. Eoin gets to live her life at Wings of Wonder sanctuary, where fresh rodent is “served” daily. She will also work as an educational ambassador.

Lessard has an impressive resume when it comes to treating raptors. She holds rehabilitation and possession permits from the Michigan Department of Natural Resources and the U.S. Fish & Wildlife Service. She was cited with the 2007 Northern Michigan Environmentalist of the Year Award in Education and was also presented with the President’s Award by the Michigan Audubon Society.

But she never lets the awards take her focus off the birds, 10 of which Lessard calls “ambassador raptors.”

“They have permanent disabilities which prevent their release back into the wilds,” she says. “So they live here at Wings of Wonder and help us educate people. They are part of the many programs we put on during the year. They will finish out their lives here... working as ambassadors for their species as well as being foster parents for the orphaned baby raptors we admit annually.”

Wings of Wonder operates with a three-person board of directors. Lessard is subcontracted by the nonprofit to work four hours a day, seven days a week.

“I donate the other 13 hours a day,” she says with a smile. “That’s my contribution.”

Besides keeping the raptors healthy, keeping them fed is another challenge. She has a separate small building near the birds where packages of mice, crickets and quail—purchased downstate—are kept in freezers.

If the raptors require more medical attention than Lessard can administer by herself, there are nine veterinary clinics from Petoskey to Cadillac that provide services for Wings of Wonder.

Of course, caring for injured birds can be dangerous, and she has suffered her share

of injuries—the most serious when an injured eagle’s talon went through her glove and pierced her little finger.

But she tends to forget about the challenging days and focus on the moments she savors.

“On a nice day, I may stop all my chores and get an ambassador raptor out on a glove and we go for a hike in the woods,” she says. Well, really Lessard does the hiking while the raptor rides on her gloved hand. “It is an amazing experience to go for a hike with a raptor,” she adds. With keen eyesight that can see at least eight times better than a human, they observe much more. “Many times when I’m out with Pearl, my red-tailed hawk,” she continues, “I will notice her keenly

interested in the canopy of a tree. When I follow her gaze, I will spot what attracted her attention...a porcupine perhaps or a raccoon snoozing on a tree branch.” Without Pearl, Lessard says she would have walked right on by. “It’s just another of the many blessings I receive from working with raptors,” she says.

Besides providing homes to hawks, falcons, owls, turkey vultures and other birds of prey, there is an occasional eagle that is treated and released.

During a warm November day, Lessard watches an eagle being rehabilitated as it flies back and forth in the sanctuary’s 100-foot long flight pen, which measures 17.5-feet high and 16 feet wide.

“This eagle will be released next week out on Old Mission Peninsula,” she says. “We invite the public to all of our raptor releases. It is not unusual to have 1,000 people attend an eagle release.”

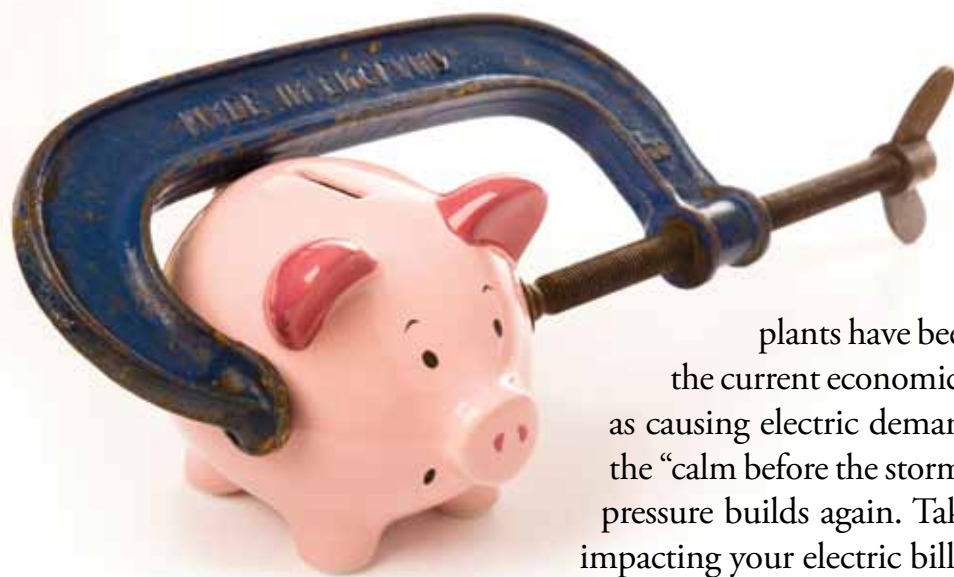
The Wings of Wonder sanctuary is not open to the public, per law, but tours are available by appointment only. And, between Lessard’s busy schedule of doing the tours and educational programs, the public gets plenty of chances to see the birds.

“These birds have an amazing will to survive,” Lessard says in awe. “I try to provide rest, good food, the right medications, a safe environment and plenty of time to recover. They do most of the work...I just try and not get in their way toward making a full recovery.”

Opportunities are also available to adopt a raptor and sponsor its care for a year by calling Lessard at 231-326-4663, sending an e-mail to [wow@wingsof wonder.org](mailto:wow@wingsof wonder.org) or visit their website, [wingsof wonder.org](http://wingsof wonder.org).

# Prices Under Pressure

Co-ops work to keep electric bills affordable as energy challenges grow.

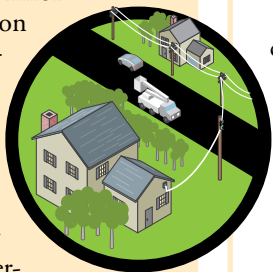


**E**lectric co-ops are caught in a high-pressure situation. New government regulations, rising fuel and materials costs, escalating demand for electricity, and required investments in both adding generation as well as upgrading existing power plants have been climbing over the last decade. While the current economic downturn released some steam—such as causing electric demand to dip—this respite may just mark the “calm before the storm” when financial fortunes rebound and pressure builds again. Take a closer look at the pressure points impacting your electric bills:

## 1. Growing Electric Demand

The U.S. Department of Energy (DOE) predicts that by 2030 residential demand for electricity will increase between 16 percent and 36 percent above 2007 levels. Historically, co-op demand rises faster than the industry average—before the recession hit, co-op sales increased by 4.4 percent while industry sales only increased 2.6 percent between 2006 and 2007.

The U.S. Energy Information Administration (EIA) predicts industry demand will rebound by 5 percent in 2010 and estimates that with strong economic growth, electricity prices will jump 19 percent by 2035. However, the forecaster fails to factor in the added costs of complying with new federal regulations aimed at curbing emissions of greenhouse gases, such as carbon dioxide, from power plants.



## 2. Added Regulation

The U.S. Environmental Protection Agency (EPA) will begin regulating greenhouse gases, such as carbon dioxide, this month—an action made possible by a 2007 U.S. Supreme Court decision (*Massachusetts v. EPA*) that gave the agency a green light to consider imposing such controls. In late 2009, EPA declared that six greenhouse gases, including carbon dioxide, “endanger the public health and welfare” of current and future generations.

Although carbon dioxide measures crowd headlines, the cumulative impact of new federal mandates for handling coal ash, water, and limiting hazardous air pollutants along with state (and perhaps federal) requirements for renewable energy generation could become a much more expensive hurdle.

During the past 20 years EPA has used the federal Clean Air Act to slash nationwide emissions of nitrogen oxides, which contribute to smog, by 54 percent, and cut acid rain-causing sulfur dioxide emissions by 42 percent. That’s an impressive reduction, considering electricity use rose 64 percent over the same period. However,

proven technology existed to achieve those results—something not currently available for removing carbon dioxide and other areas under scrutiny.

“The Clean Air Act as written was never designed to deal with carbon dioxide, and it could be awkward at best and probably a disaster, at worst,” warns Glenn English, CEO of the Arlington, VA-based National Rural Electric Cooperative Association (NRECA).

“We’re entering an era where regulatory activities are going to play a more significant role in the electric industry than what happens on the legislative front,” asserts Kirk Johnson, NRECA vice president of energy & environmental policy, noting that Congress has debated climate change policy for over a decade without reaching a clear consensus. “Environmental statutes that have been on the books since the 1970s, especially the Clean Air Act, are like a one-way ratchet: they only tighten.”

Tighter emissions standards could have a multi-billion dollar impact on the cost of doing business for electric co-ops, adding more pressure to electric bills.



### 3. Need for New Power Plants

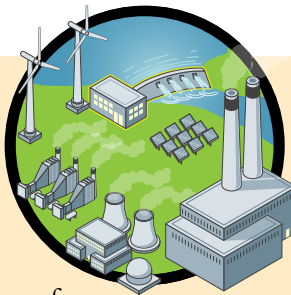
Even as new regulations are announced, utilities must be ready to make quick decisions on moving forward with power plants to meet growing electricity demand—especially since the number of operating plants may start to fall, not rise.

“Because of these new rules, we’re expecting a number of current power plants to go offline and retire,” predicts Johnson. “The cost to comply with the rules may simply be too much.”

The North American Electric Reliability Corporation (NERC), which oversees the reliability of the bulk power system covering the United States and most of Canada, estimates that by 2017 peak demand for electricity will jump 135,000 MW—equivalent to the current amount of power used by the entire western half of the nation. Planned new generation resources will only provide another 77,000 MW, far short of the amount of energy Americans will need.

Co-ops are working hard to relieve some of this pressure and delay the need for new plants through energy efficiency programs. Most co-ops offer energy efficiency education, but many take this a step further; 77 percent provide residential energy audits while 49 percent offer financial incentives for members to make efficient choices. But these measures can only go so far.

“When the economy turns around, co-ops will resume growing faster than other electric utilities,” remarks English. “We’ve got to be ready for that development and have new power plants planned and largely ready to go. However, co-ops must first know how carbon dioxide and other rules could impact the price of power to make prudent decisions.”



### 4. Cost of Materials

Every year that investments in new power plants are delayed jacks up the final price tag. Worldwide, steel prices soared 42 percent between 2009 and 2010 while costs for other construction supplies like nickel and concrete jumped as well.

Materials costs for distribution co-ops are also climbing. Prices for copper, a critical raw material used for wire and to ground electrical equipment, reached a 27-month high at the end of 2010. Between 1990 and 2010 in the north-central part of the nation the price tag on

utility poles, towers and fixtures skyrocketed 98 percent while line transformers spiked 154 percent.

“Electric co-ops have an obligation to keep the lights on and electric bills affordable at a time when the costs for fuel and raw materials to build new generation are steadily rising,” acknowledges English. “Combined with costs of additional regulatory compliance, these are just some of the pressure points that will affect electric bills in years to come—all of which are largely beyond the control of local co-ops.”

Sources: U.S. Energy Information Administration, “2009 Annual Energy Outlook”; North American Electric Reliability Corporation, “2010 Special Reliability Scenario Assessment”; Cooperative Research Network, “Handy-Whitman Index of Public Construction Costs”; U.S. Environmental Protection Agency, “Steel Market Update”

**Megan McKoy-Noe**  
writes on consumer and cooperative affairs for the National Rural Electric Cooperative Association.



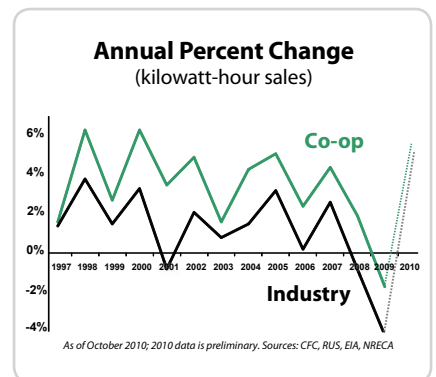
## Power Use Largely Mirrors Overall Economy

For a quarter-century America’s electricity consumption climbed steadily, making it fairly easy to forecast and plan for power needs 10, 20, or even 30 years down the road. That changed in December 2007 with the first signs of a recession.

As the nation’s economy slowed, electricity sales dropped 0.8 percent in 2008 and another 4.2 percent in 2009—the greatest single decline in six decades. Commercial and industrial use was hit the hardest. According to the U.S. Energy Information Administration (EIA), net power generation nationwide in 2009 sank below 2004 levels. Electric co-ops primarily serve residential members so the downward trend wasn’t as severe, but it was still apparent.

“With the economic recession affecting electricity demand, forecasts of future demand have resulted in greater uncertainty for both short- and long-term planning horizons,” states a 2010 report from the North American Electric Reliability Corporation, an organization charged with overseeing reliability of the United States’ electric grid.

Further illustrating uncertainty, EIA released two different forecasts for the next 25 years hinging on the nation’s economic growth—predictions that don’t take into account the cost of impending federal regulations to curb carbon dioxide emissions from power plants.





# sausage

## recipes

Enjoy these recipes sent in by readers with smoked, bulk, Polish, Italian and kielbasa sausage. Find hundreds more recipes at [countrylines.com](http://countrylines.com).

### Buttermilk Biscuit Sausage Pinwheels

- 1/4 c. shortening
- 2 c. flour
- 1 t. salt
- 1 T. baking powder
- 1 c. buttermilk
- 1 lb. bulk pork sausage

Combine flour, salt and baking powder; cut in shortening. Add buttermilk; mix. On a lightly floured surface, knead

dough for a few seconds. Roll out into a 9x13-inch rectangle. Spread uncooked sausage over dough. Roll up, jelly-roll style, starting from the short side. Cover and chill in refrigerator 1 hour. Cut roll into 1/2-inch slices. Place slices on a lightly greased baking sheet. Bake at 425° for 20 minutes or until lightly browned. Serve with maple syrup, if desired.

*Annie Miller, Manistee*

### Spicy Beans & Sausage

- 1 lb. smoked sausage, halved lengthwise and cut in 1/2-inch pieces
- 1 16-oz. can kidney beans, rinsed and drained
- 1 15½-oz. can great northern beans, rinsed and drained
- 1 15-oz. can black beans, rinsed and drained
- 1½ c. frozen corn
- 1½ c. salsa

- 1 lg. green pepper, chopped
- 1 lg. onion, chopped
- 1/2-1 c. water
- 3 garlic cloves, minced
- 1 t. ground cumin

In a 5-quart slow cooker, combine all ingredients. Add enough water to fill cooker halfway. Cover and cook on low 5-6 hours or until meat is tender. Stir before serving.

*Doreen Lawrence,  
St. Clair Shores*

### Sausage Potato Soup

- 1 lb. link sausage, Italian works well
- 6 med. potatoes, peeled and cubed
- 1 lg. onion, chopped
- 1 c. chopped carrots
- 3 ribs celery, chopped
- 3 c. water
- 1 c. milk
- 1 can cream of chicken soup, undiluted
- 8 oz. cream cheese

Brown link sausage; cut into bite-sized pieces and set aside. In a saucepan, combine potatoes, onion, carrots, celery and water; bring to a boil and cook until tender, about 30 minutes. Add sausage and any brown bits from the pan, milk, soup, and cream cheese. Heat and stir well until cheese dissolves. If desired, thicken soup with a roux of butter and flour.

*Mari Beswick, Baldwin*

### Kapusta

- 1/2 lb. bacon
- 1 lb. ground beef, optional
- 2 8-oz. pkgs. fresh mushrooms or 8 oz. can mushrooms
- 2 med. onions, diced
- 1 15-oz. can diced or crushed tomatoes
- 1/2 c. beef stock
- salt and pepper to taste
- 1 lg. can sauerkraut, drained and rinsed once
- 5 lb. head cabbage, shredded
- 2-3 sticks kielbasa, cut in chunks

Cut bacon into 1/2-inch pieces; fry crisp. Do not drain. In another pan, brown ground beef; drain liquid and add to bacon. Stir in mushrooms, onions, tomatoes, salt, pepper and beef stock; simmer for 15 minutes. In a large roaster pan, combine sauerkraut and cabbage. Add sauce with meat; mix well. Cover and bake at 350° for 1 hour. Reduce heat to 300° and bake 2 hours longer; stirring occasionally. Add kielbasa during the last hour of baking.

*Marilyn Eaton, Lake*

### Sausage Soup

- 12 oz. Polish sausage, fully cooked
- 16 oz. can stewed tomatoes
- 1½ c. water
- 10 pkg. frozen cut okra or cut green beans, optional
- 1 t. dried thyme leaves
- 1/4 t. garlic powder

- 2 t. hot sauce
- 1 c. cooked rice or minute rice

Cut sausage in half lengthwise; then cut into 1/2-inch pieces. Place all ingredients in a large saucepan. Cook over medium heat until heated through, about 15-20 minutes. Serves 4.

*Linda Larner, Central Lake*

### Sausage Stuffing Balls

- 1 lb. ground sausage, any flavor
- 1 6-oz. pkg. stuffing mix, any flavor
- 3/4 c. cranberry sauce
- 1 egg
- 1 c. water
- 2 T. melted butter

Cook sausage in a large skillet until cooked through, stirring often; drain. Transfer meat to a large bowl; cool slightly. Stir in dry stuffing mix. Add cranberry sauce, egg and water; mix well. Shape into 16 balls; place on a baking sheet. Brush evenly with butter. Bake at 325° for 20 minutes until brown.

*Mary Waterbury, Fenton*



## Summer Sausage

4 lbs. ground beef  
1 c. water  
3/4 t. onion powder  
3/4 t. garlic powder  
1 1/2 t. mustard seed  
1 1/2 t. ground peppercorns  
1 1/2 T. liquid smoke  
5 T. Morton's Tender Quick® salt  
1 t. hickory salt

Mix all ingredients together in a large bowl. Divide into four equal parts. Shape each quarter into a roll shape. Wrap each in tin foil, shiny side out. Refrigerate 24 hours. Leave wrapped securely in foil; place in boiling water and boil for 1 hour. Cool, rewrap and refrigerate or freeze for later use.

*Ester Crawford, Niles*

## Mediterranean Pasta Sausage

1 lb. Italian sausage links, casings removed  
1 26-oz. can Hunt's® Roasted Garlic and Onion Spaghetti sauce.  
1 2.25-oz. can sliced black olives; drained  
1 16-oz. pkg. frozen cut leaf spinach  
4 c. uncooked penne pasta  
3 c. shredded mozzarella cheese divided

Cook pasta according to package directions; drain and keep warm. Cook sausage in a large non-stick pan over medium-high heat for 5-7 minutes until crumbled and no longer pink; drain. Stir in sauce, olives and spinach; heat through. In a large bowl, combine meat sauce with hot pasta; toss until well coated. Coat a 9x13-inch baking dish with cooking spray. Pour in half of the pasta mixture; top with half the cheese; repeat steps. Cover with foil and bake at 350° for 20-30 minute until cheese is melted.

*Paula Brousseau, Bellaire*

## Cheesy Sausage Peppers

2 16-oz. jars whole pickled jalapeño peppers or 18 fresh  
16 oz. shredded cheddar cheese, divided  
1 lb. pork sausage  
1 1/2 c. biscuit baking mix  
3 eggs lightly beaten  
2 envelopes pork flavored seasoned coating mix

Cut each jalapeño in half lengthwise; remove seeds and stems. Stuff each half with about 1 tablespoon cheese. In a bowl, combine the uncooked sausage, biscuit mix and remaining cheese; mix well. Shape about 2 tablespoonfuls around each jalapeño half. Dip into eggs; roll in coating mix. Place on a baking sheet coated with nonstick cooking spray. Bake at 350° for 35-40 minutes or until golden brown.

*Arlene Yoder, Scottville*

## Deep Dish Pizza

### *Crust:*

1 pkg. yeast, (2 1/4 t.)  
2/3 c. warm water  
2 c. flour, divided  
1/4 c. oil  
1 t. oregano  
1 t. basil  
1 t. marjoram  
1/2 t. garlic powder  
1/2 t. onion powder

### *Toppings:*

4 c. mozzarella cheese, divided  
diced onion  
thinly sliced mushrooms  
1 lb. ground sausage  
1/2 t. oregano  
1/2 t. basil  
1/2 t. marjoram  
1 28-oz. can diced tomatoes, well drained

Dissolve yeast in warm water. Add 1 cup flour, oil, oregano, basil, marjoram, garlic powder and onion powder; mix well. Add remaining flour; knead for 6 minutes. Place dough in a greased bowl; let rise 1 hour. Transfer dough to a greased 9 x 13-inch pan; spread crust across pan and up the sides. Sprinkle crust with 1 cup mozzarella cheese. In a fry pan, sauté sausage, onion, mushrooms, oregano, basil and marjoram; drain. Stir in tomatoes; pour over cheese. Sprinkle 2 more cups cheese over sauce. Bake at 400° for 20 minutes. Sprinkle with remaining cheese; bake 10-15 minutes longer. Let sit 5-10 minutes before cutting.

*Mary Ellen Wynes,  
Mt. Pleasant*

## Jambalaya

1 T. olive oil  
16 oz. kielbasa, cut in 1/4-inch rounds  
1 28-oz. can whole tomatoes  
1/2 c. water  
1 8-oz. box jambalaya flavored rice mix  
1 lb. shrimp, peeled and deveined  
1/4 t. hot pepper sauce, optional

Heat oil in a saucepan over medium heat. Add kielbasa; cook until browned. Add tomatoes in their liquid and water. Crush tomatoes with the back of a spoon. Bring mixture to a boil; add rice mix, reduce heat; cover and cook for time specified on rice package. Add shrimp; stir, cover and cook about 5 minutes, until shrimp are pink. Stir in pepper sauce if desired and serve.

*Mary LaFleur, Bellaire*

## Stuffed Portabella Mushrooms

1 lb. Italian sausage  
1 lb. ground turkey  
2 T. Worcestershire sauce  
1/4 c. semi-dry white wine  
3 t. minced garlic  
1/4 c. Italian bread crumbs  
2 med. eggs  
1/2 c. grated Asiago or Parmesan cheese  
4 lg. portabella mushrooms

Cook sausage and turkey in a large skillet until brown; drain. Mix remaining ingredients, except mushrooms with the meat mixture. Divide mixture into 4 portions. Remove stems from mushrooms and fill each mushroom with mixture. Place mushrooms, stuffing side up, on a baking sheet. Bake at 350° for 20 minutes. Serve mushrooms whole, as an entrée or slice into wedges for appetizers.

*Eva Braganini, Mattawan*

▶ **Send in your recipes!** If published, you'll receive a kitchen gadget. Send in: **BUDGET FRIENDLY recipes by Jan. 10**, **CHEESE recipes by Feb. 10** and **MARSHMALLOW recipes by March 10**. Mail to: Country Lines Recipes, 2859 W. Jolly Rd., Okemos, MI 48864; or email [jhansen@countrylines.com](mailto:jhansen@countrylines.com).

# Remembering an Outdoor Friend

**T**ime, it's said, is a great healer. It's also a great thief that robs us in many ways as our age increases; but the worst theft of all is that of losing old friends.

This writer lost an old friend this November—one I'd shared trout streams and grouse coverts with for decades. Art Underwood of St. Ignace left family and friends after a long bout with illness—and leaves a big void in the lives of many of us who shared the outdoors with him.

Of all the members of our long-time trout fishing club with whom I shared decades of opening days by the Au Sable River, Art Underwood and I had the longest span of friendship—one that began as undergrads at Michigan State in the '50s. By another coincidence, we shared birthdays only a week apart in February.

We also shared a love of fly-fishing and bird hunting, along with good friends who also grieve his passing.

After college we worked in scattered places; Art went to UPI wire service employment in Chicago and Michigan, eventually as chief of the UPI Lansing Bureau, while I headed west and freelanced magazine articles to publications in California, Chicago and Colorado while playing trumpet in jazz bands to help pay the bills.

On returning to Michigan, it was mutual friend Whitey Sawyer, then sports editor of the *Muskegon Chronicle*, who brought us back together for 37 following years in our Grayling fishing camp. It was a funny moment at that first reunion when, after a long time span and a change in bulk and beards, we suddenly recognized each other across a camp dinner table.

Art was a natural story teller and would usually have a small circle of other campmates gathered around as he spoke on almost any subject that came up. He was well-read and knew a lot about most things, and in our circles he was the unofficial 'guru.'

Art was also a member of the Camp Socrates Grouse Hunt Club held at my cabin near Baldwin and members of that club have also expressed their sadness at the loss of our hunting companion.

In my scrapbook there is a page from the MSU newspaper. In the top left ( 'above



**Trout camp** - An ailing Art Underwood (seated, center) at one of his last visits to his longtime trout camp is surrounded by fishing buddies of up to 40 years of shared openers. Art passed over Thanksgiving in his home at St. Ignace after several years of increasing illness. He leaves family and a great number of outdoor companions behind.

the fold,' I often kidded him) is a picture of myself at a piano going over the score for the annual Red Cedar Water Carnival for which I was musical director; and in a small brief below was the announcement of Art's selection to be the next year's editor. It was one of the few times I was one-up on Art.

Since reconnecting those many years ago, Art and I shared some great rambles together. Once when I was visiting him, he decided to give me the grand tour of some of his favorite backwoods niches.

We visited a small trout stream on the Pine River that was hidden within dog-hair spruce and cedar thickets and was his favorite place to fish the runs of pink salmon. It was also part of a federal hatchery where Lake Superior lake trout are reared for replanting in Lake Michigan where the original lakers were wiped out by overfishing and lamprey. It was also the best place to buy a pastie or smoked whitefish.

Wes Maurer, publisher of the *St. Ignace News*, enticed Art to come out of retirement to work for him as a reporter from 1998 to

2003, and Art had lost none of his skill as a wordsmith.

Earlier, the St. Ignace City Council named May 24 as "Art Underwood Day" in recognition of his many services to the community and local causes, including chairing the St. Ignace Planning Commission for eight years and helping to develop the county's 9-1-1 emergency service.

Art's long days of illness, weekly hospital visits, and absence from the streams and coverts he loved are now over. As will his many friends, this writer will sorely miss that big "Huggy Bear" and our circle of outdoor companions are poorer for his passing. Art's gone on to fish loftier streams.

**Don Ingle**  
is an avid outdoorsman  
and award-winning  
outdoors writer that  
submits regularly for  
*Country Lines*.





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# Rolling Shutters Improve Windows' Efficiency and Safety

**H**aving windows in your home that are still in good condition but are not the most energy efficient is common. If good-quality windows were installed within the past decade, they should last a very long time with little maintenance. This is particularly true for windows with vinyl or thermally broken aluminum frames. Windows with pultruded fiberglass should practically last a lifetime.

Although rolling window shutters offer many advantages in addition to energy efficiency, there are other lower-cost options to also consider.

Installing magnetically-attached acrylic interior storm windows is one relatively low-cost option to improve efficiency.

Some of the new low-emissive permanent window films save energy year-round. They are nearly clear, and you can install them yourself. Both of these options also block much of the sun's fading ultraviolet (UV) rays. Installing insulating window shades or curtains is also effective.

Adding rolling shutters on the exterior of your windows improves efficiency and also offers security and storm protection. These shutters are commonly used in coastal hurricane zones.

The actual energy savings from installing rolling shutters depends on the type of window glass you have and, to a lesser extent, the types of slat in the shutter. If your house has double-pane windows, adding the shutters will about double the insulation value of the windows. With single-pane windows, the efficiency increase will be even greater.

You can get an additional energy savings during summer because the rolling shutters also block direct heat from the sun's rays through the windows. The shutters can be lowered to any position to allow in only as much light (and heat) as you desire. When



completely lowered over the window, they block nearly all of the light.

Rolling shutters are extremely strong and secure because they operate similarly to a rolltop desk. Narrow slats roll up into a box housing above the window. The ends of each slat slide in vertical tracks on each side of the window, making them very secure and relatively airtight when fully closed. The slat itself provides insulation, as does the dead air space created between the shutter and the window glass. In cold climates, this also reduces indoor window condensation problems.

If you want security and privacy but also light and ventilation, slightly raise the rolling shutter. The bottom of the shutter will not rise but the slats will separate, slightly exposing the interlocking flanges between them. Many of the shutters are designed with narrow slots in the flanges, which allow some light and fresh air to filter in.

Roll-formed metal, plastic or extruded aluminum are used to make the slats. All are suitable for most areas. The extruded aluminum

slats are the strongest and most expensive, and are often used on shutters for large windows. The roll-formed metal slats can be filled with foam insulation for higher efficiency and rigidity. Check your local building codes for required materials and strength.

An important feature to consider is how the rolling shutter is opened and closed—usually with a pull strap, a crank handle or an electric motor. Keep in mind, if your shutters are inconvenient to use, you will not close them as often as you should.

For most small- to average-sized windows, a pull strap is easy to use and inexpensive. Large shutters or ones made from heavy gauge aluminum may be easier to operate with a hand crank. Electric motor operators are most convenient, but also more expensive.

If the pull strap or crank is indoors, there will have to be a hole in the wall connecting it to the outdoor housing. This will allow a slight amount of air leakage. An electric motor operator will eliminate the need for a hole.

The following companies offer rolling window shutters: AC Shutters, 800-745-5261, [acshutters.com](http://acshutters.com); Roll-A-Way, 800-683-9505, [roll-a-way.com](http://roll-a-way.com); Rollac Shutters, 888-276-5522, [rollac.com](http://rollac.com); and Wheatbelt, 800-264-5171, [rollupshutter.com](http://rollupshutter.com).

*Have a question for Jim? Send inquiries to: James Dulley, Michigan Country Lines Magazine, 6906 Royalgreen Dr., Cincinnati, OH 45244 or visit [dulley.com](http://dulley.com).*

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# "Vinegar Can Do What?"



(By Frank K. Wood)

If you want to discover inexpensive alternatives to hundreds of costly products, you need *The Kitchen Table Book: 1,427 Kitchen Cures and Pantry Potions for Just About Every Health and Household Problem*, an informative new book just released to the public by FC&A Medical Publishing® in Peachtree City, Georgia.

Your refrigerator alone could be holding more healers than the drug companies' billion-dollar labs! You won't believe what you can do with baking soda, bananas, and so much more!

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# Energy-Saving Boxes: Too Good to Be True?

**M**ost of us think we're too smart to fall for a scam. Yet, every year, thousands of folks are separated from their hard-earned dollars by putting their faith and trust in another person's sales pitch.

There's no shortage of hucksters pretending to help consumers save energy. These types of scams generally center on misstatements of science or confusion over an electric utility's energy efficiency programs.



The most popular scam right now involves a device that promises to save energy without requiring you to make any changes in behavior, turn anything off, or adjust the thermostat. People who sell these "little boxes" often claim outrageous energy savings—sometimes as much as 30 percent or more—couched around legitimate utility terms like power conditioning, capacitors and power factor.

The marketing spiel usually goes something like this: "The model being sold will control alternating current power factor and reduce electric bills. It will condition your power and make appliances last longer. It uses no power and has no moving parts. It will make motors in your home run better."

Accompanying materials often caution, "Your utility doesn't want you to know about this device." That last part is true—but only because these boxes are a rip-off.

What's the reality? While electric co-ops use various components to correct power factor for commercial and industrial consumers, power factor correction is not a concern with homes.

Engineers at the University of Texas-Austin concluded that one of the units could produce no more than a 0.06 percent reduction in electric use in an average house.

The Electric Power Research Institute, a

Palo Alto, CA-based nonprofit research group made up of electric utilities, including electric cooperatives, recently tested one of the most popular residential power factor correction products and found that it generated average power savings of just 0.23 percent—far from the 30 percent claimed by its manufacturer. At that rate, it would take a typical homeowner more than 70 years to recoup his or her investment.

In short, these devices are nothing more than ordinary capacitors used to store energy or differentiate between high- and low-frequency signals. Since capacitors are already at work in your co-op's infrastructure and in many of your home's electronics and appliances, there is very little savings to be gained.

Companies selling the "little boxes" change names quickly and often, and move from town to town looking for new victims. There are several questions you should ask a sales representative when reading an ad for the next magical cure-all:

## Does the product violate the laws of science?

For example, does it claim to be capable of "changing of the molecular structure ... to release never-before tapped power." If true, the invention would quickly be sold in every store across the nation, not marketed through fliers or a poorly designed website.

## Was the product tested by an independent group?

If the performance of the product was not tested and certified by a lab or entity not connected to the company selling it, be very skeptical.

## Is it too good to be true?

If so, it probably is. A video getting play on the internet shows a consumer reporter for a TV station testing one of these little boxes. By looking at electric bills before and after installation, he concludes the device is a good buy. However, an excessively hot or unusually cool day can cause one month's electric bill to run significantly higher or lower than the previous month. Wise consumers always ask to see electric use for the same month from the previous year(s), not previous month, and factor in weather anomalies for any savings claims.

## What Is Power Factor?

Power factor is the ratio between the electricity we use (real power) and the amount of electricity a utility provides (apparent power), expressed as a number between 0 and 1. The average home in Michigan has a power factor of 0.95, or 95 percent. This means even if an electrical system isn't performing at its best (1, or 100 percent), utilities deliver extra power to make sure consumers get what they pay for. When power factors come in below 1, special equipment like capacitors are used to keep an electrical system in balance.

## Real World Example:

Let's say you ordered a drink at a restaurant, and when it arrived the glass was overflowing. You only ordered a 12 oz. drink, but the waiter poured a bit extra to make sure the cup was full. You're not charged for anything that spills over the rim, just like you're not charged for the extra power that your co-op delivers to make sure you're getting what you pay for.



**Brian Sloboda**  
is a program manager  
specializing in energy  
efficiency for the  
Cooperative Research  
Network





# Thumb Electric Cooperative Energy Efficiency Loan Program



Thumb Electric Cooperative has expanded its Energy Efficiency Loan Program for existing homes. Qualified members of existing homes may borrow up to \$6,000 at 7 percent interest, payable over seven years for the following home improvements—water heaters and central heating and air conditioning systems that reduce energy consumption, including:



**A geothermal unit uses renewable energy from the earth and can heat, cool and also heat the water in your home.**

- Gas and fuel oil furnaces/boilers
- Geothermal systems
- Air-source heat pumps
- Electric furnaces and boilers
- Wall, ceiling and floor insulation
- Ventilation fans
- Clock thermostats
- Duct, pipe, water heater insulation
- Thermal windows, storm windows, insulated doors and storm doors



Call **800-327-0166** or **989-658-8571** to schedule a home energy analysis. We will show you how much money you can save. The loan portfolio is limited to \$225,000 per calendar year.



Last year our Energy Optimization programs helped participating members save over 30 million kilowatt hours of electricity across the state of Michigan. That adds up to big energy bill savings—with even more chances for you to save this year! Watch for information about the 2011 Energy Optimization programs at [michigan-energy.org](http://michigan-energy.org) or by calling 877-296-4319.

**KEEP ON SAVING**  
with the 2011 Energy Optimization programs.





# Winterizing Your Vehicle Can Save Cold Cash

**W**interizing your vehicle should be a top priority, according to the Car Care Council, saving you from the inconvenience of being out in the cold with the unexpected expense of emergency repairs.

“The thought of a breakdown, an engine not starting or otherwise being stranded is stressful as it is, but those things happening in freezing winter weather are extra stressful and costly,” said Rich White, executive director, Car Care Council. “An investment of an hour or two to have your vehicle checked is all it takes to have peace of mind and help avoid the cost and hassle of a breakdown during harsh weather.”

The Car Care Council recommends the following steps for winterizing your vehicle:

- ◆ Clean, flush and put new antifreeze in the cooling system. As a general rule of thumb, this should be done every two years.

- ◆ Make sure heaters, defrosters and wipers work properly. Consider winter wiper blades and use cold weather washer fluid. As a general rule, wiper blades should be replaced every six months.

- ◆ Have the battery and charging system checked for optimum performance. Cold weather is hard on batteries.

- ◆ Check the tire tread depth and tire pressure. If snow and ice are a problem in your area, consider special tires designed to grip slick roads. During winter, tire

pressure should be checked weekly.

- ◆ Be diligent about changing the oil and filter at recommended intervals. Dirty oil can spell trouble in winter. Consider changing to a “winter weight” oil if you live in a cold climate. Have your technician check the fuel, air and transmission filters at the same time.

- ◆ If you’re due for a tune-up, have it done soon. Winter magnifies existing problems such as pings, hard starts, sluggish performance or rough idling.

- ◆ Have the brakes checked. The braking system is the vehicle’s most important safety item.

- ◆ Have the exhaust system checked for carbon monoxide leaks, which can be especially dangerous during cold weather driving when windows are closed.

- ◆ Check to see that exterior and interior lights work and that headlights are properly aimed.

Motorists should also keep the gas tank at least half-full at all times to decrease the chances of moisture forming in the gas lines and possibly freezing. Drivers should check the tire pressure of the spare in the trunk and stock an emergency kit with an ice scraper and snowbrush, jumper cables, flashlight, flares, blanket, extra clothes, candles/matches, bottled water, dry food snacks and needed medication.

Since fuel economy is also directly related to vehicle maintenance and driving behavior, consider these additional facts:

- Keep your car properly tuned to improve gas mileage by an average of 4 percent.

- Keep tires properly inflated to improve gas mileage by 3 percent.

- Replace dirty or clogged air filters on older vehicles to improve gas mileage by as much as 14 percent.

- Replace dirty spark plugs, which can reduce mileage by two miles per gallon.

- Change oil regularly and gain another mile per gallon.

- Observe the speed limit. Gas mileage decreases rapidly above 60 mph.

- Avoid excessive idling. Idling gets zero miles per gallon. Warming up the vehicle for one or two minutes is sufficient.

- Avoid quick starts and stops.

Aggressive driving can lower gas mileage by 33 percent on the highway and 5 percent in the city.

- Consolidate trips. Several short trips taken from a cold start can use twice as much gas as one longer multi-purpose trip.

- Don’t haul unneeded items in the trunk. An extra 100 pounds in the trunk reduces fuel economy by 1 to 2 percent.

*For a free copy of the council’s “Car Care Guide” or for more information, visit [carcare.org](http://carcare.org).*

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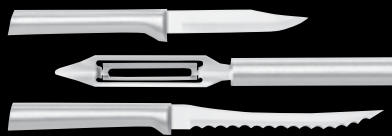
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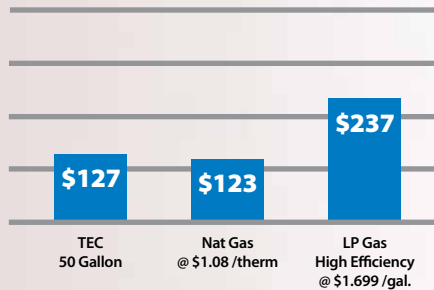
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# What Does It Cost to Heat Water?

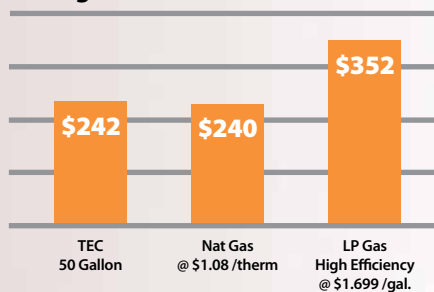
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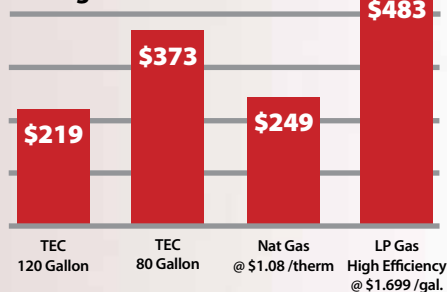
Average Annual Costs



Average Annual Costs



Average Annual Costs



## Why Choose Geothermal?

Here are just a few of the reasons why a ground source heat pump system may be the best option for heating and cooling your home:

### Energy Bill Savings

Homeowners can save 25 to 75 percent on their total energy bills, compared to other heating and cooling systems.

### Increased Efficiency

The Environmental Protection Agency found that ground source heat pumps are an average of 48 percent more efficient than the best gas furnaces on a source-fuel basis, and more than 75 percent more efficient than oil furnaces.

### Higher Satisfaction

Surveys indicate higher consumer satisfaction for GSHP systems than for conventional systems. Polls show that over 95 percent of all customers would

recommend this type of system to family or friends.

### Reduced Maintenance Costs

Homeowners can also look forward to saving money on maintenance, repairs and replacement costs. A ground source heat pump system's hardware has few moving parts and should be maintenance-free for at least 20 years.

### Free Hot Water

Ground source heat pump systems may be designed to supplement a home's conventional water heater, saving up to 30 percent in hot water costs every year.

### No Emissions

The Environmental Protection Agency says GSHPs generate no on-site emissions and have the lowest overall emissions among all heating/cooling systems.

Source: Geothermal Heat Pump Consortium, [geoexchange.org](http://geoexchange.org).

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# Green Thumb Home Heating

Geothermal is a simple technology that uses the earth's renewable energy to provide high-efficiency heating and cooling. In winter, the system draws heat from the ground and transfers it to your home. In summer, it extracts heat from your home and transfers it to the ground. **Contact the energy experts at Thumb Electric Cooperative at 800-327-0166** for honest answers on your energy choices, or call any of the trained and certified installers listed here.

## All-Temperature Geothermal Systems

1000 E. Sanilac Rd., Caro, MI 48723  
989-673-5557

## Ameriheat, Justin Faber

2891 E. Forester Rd., Deckerville, MI 48427  
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## Climatech

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989-871-2067

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3045 Grange Hall Rd., #7, Holly, MI 48442  
248-531-0325

## Geomasters, Inc., Plumbing & Heating

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## Ingell Refrigeration

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## Jack McCain Plumbing & Heating

9651 Weale Rd., Bay Port, MI 48720  
989-453-2277

## Kowaleski Heating & Cooling, LLC

3977 Ruppel Rd., Port Hope, MI 48468  
989-428-3371

## Kulek Heating & Air Conditioning

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810-387-4452

## Kundinger & Kroll

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989-864-3833

## Michigan Energy Services

8445 Main St., Whitmore Lake, MI 48189  
888-339-7700

## Newton-Johnson Plumbing & Heating

112 N. Main St., Vassar, MI 48768  
989-823-2341

## Orton Refrigeration

31 W. Sanilac Rd., Sandusky, MI 48471  
810-648-2252

## Preferred Heating

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810-378-5454

## Priority Service by Porter & Heckman

3056 Davison Rd., Lapeer, MI 48446  
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7184 Nitz St., Pigeon, MI 48755  
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## Superior, Inc.

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## Thumb Cooling & Heating

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## 2nd location:

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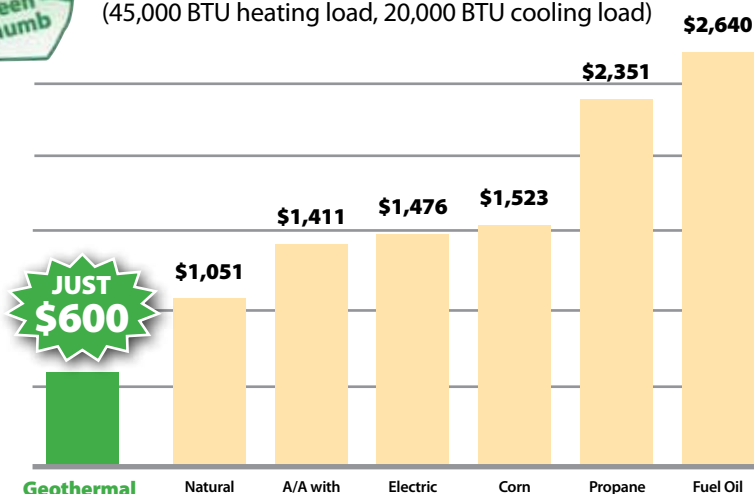
3609 Lake George Rd., Dryden MI 48428  
810-796-3313



## Annual Operating Costs

For an Average 1,800 Sq. Ft. Home

(45,000 BTU heating load, 20,000 BTU cooling load)



Factors Used: **Electric Baseboard**, **Air-Source Heat Pump** and **Geothermal**—based on TEC's 6.05¢/kWh dual-fuel rate. **LP gas**—based on \$1.899/gal. and 90% efficient furnace. **Fuel Oil**—based on \$2.50/gal. and 80% efficient furnace. **Natural Gas**—based on \$1.08/therm., 90% efficient furnace including \$9/mo. service charge. **Corn**—based on \$4.38/bushel. (Electric baseboard and corn operating costs do not include air conditioning.)

# The Music in Our Lives

Last month I was on the verge of participating in a study of brain function and memory at Michigan State University. They were looking for healthy men and women over 65 who had attended college and who would be willing to submit to brain scans, DNA tests, and memory evaluations to help researchers determine if there were markers that could provide early warning signs for memory and brain ailments.

It seemed like a good thing to do. Besides, you never know when that kind of research just might benefit yourself or someone you know. Unfortunately, at the last minute, just before I was getting ready for an MRI scan, the technician asked if I had ever had metal fragments in my eyes, because they could react with the scan and cause severe eye damage. Well, I had—both long ago and more recently. And while those fragments are probably gone, the extra test to determine if they are was too expensive for the research project to bear. So my career as a lab rat was cut short.

That same week I went to Menard's to buy a few sheets of wallboard so I could repair a wall damaged by a water leak. On the way home, and for days after, I couldn't get the bad Muzak version of "I'll Be Home for Christmas" that played on the store speakers out of my head.

So, my memory still works, but in very mysterious ways. I have a great sense of direction, which is good because I can't remember street names. I remember faces, but it may take an hour for me to remember the name of the person attached to the face. It makes things a little awkward. (I really wish I could have had that brain scan.)

Music is one way to keep the brain functioning at a higher level. I don't just mean classical music, which has been proven to work. I mean any music—even the music you may think is outside your generational comfort zone.

A few months ago my wife, Barbara, sent her Aunt Jeanette in Columbus, OH,

several CDs of 1940s big-band music by the likes of Benny Goodman and Glenn Miller, plus a hits compilation by Frank Sinatra.

She couldn't have gotten her a better gift for her birthday. Jeanette said she couldn't stop dancing around her apartment, singing along and playing the music loud enough for her neighbors to hear. College girls in the apartment complex showed up at her door to find out about this music they liked but couldn't place. They shared wine while they listened. Generations were bridged in the few swinging minutes of "In the Mood."

This was the music of Jeanette's teens and twenties, when all of us are marked for life with the musical imprint of our generation. Recently, I was watching an otherwise forgettable movie that took place in the late '50s that included a decent rendition of "Blue Suede Shoes." I was immediately taken back to my grandmother's apartment, where we watched black-and-white TV and were first exposed to the sheer animal power of Elvis Presley and early rock-and-roll. It still moves me.

But then most of the music of the '50s, '60s and '70s moves me, rock more than country. I am copying records from those years to a digital format so we can include them in our iTunes library, including, among others: The Band; Blood, Sweat & Tears; Roberta Flack; Dave Brubeck and Miles Davis (from my jazz years). Then there are the personal oddball favorites, like "Frog City" by Southern Comfort, a rare southern rock album by a British band, and "Motel Shot" by Delaney & Bonnie and Friends, with 'friends' including Eric Clapton, George Harrison and Duane Allman. They'll join never-tired-of favorites like The Beatles, Cowboy Junkies, Emmylou Harris, Norah Jones (alone

and with The Little Willies), Eric Clapton, Bruce Springsteen, Dwight Yoakam, Simon & Garfunkel and Bob Dylan.

But I don't think it's healthy to dwell on music from our past exclusively. Exciting and interesting music is being made today, an eclectic blend of rock, country, blues and, yes, rap, that's as fresh as early rock.

Give a listen to CAKE, Jack White, Monsters of Folk, Wilco, Green Day, Duffy, Band of Horses, Ben Harper, KT Tunstall, The Swell Season, and The Donkeys. (I thank our boys for tuning us in to new music.)

Older artists crossing the generational gap are Tony Bennett and Johnny

Cash. Over the past year, I've heard Cash's songs played in places where young people gather more than ever. Bennett draws bigger crowds of young fans now than he ever did.

That's nice, because his version of "I Left My Heart in San Francisco" is *our* song, if you know what I mean. When Barbara and I were in New York City a decade ago, we saw Tony strolling in Central Park. Barbara wanted to meet him, but I held her back, suggesting that if he couldn't go for a walk without being bothered in Central Park, essentially his front yard, where could he go? So we let him be, which she doesn't let me forget and probably never will. She's got a great memory.

Thanks for joining us.



*Mike Buda, editor emeritus of Country Lines, can't play a note on any instrument, though he faked a bugle for a couple of years. Email Mike at [mbuda@countrylines.com](mailto:mbuda@countrylines.com) or comment on his columns at [countrylines.com/column/ramblings/](http://countrylines.com/column/ramblings/)*



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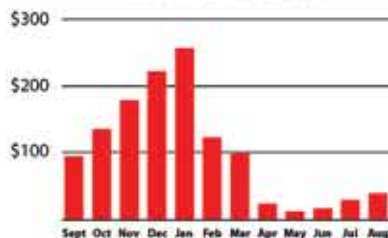
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