

McLeod Cooperative Power NEWS

July 2015

In this issue...



GSHPs provide low cost, efficient heating and cooling..... 4



Meter installation update 8



Farmfest 2015
August 4, 5, 6!

Details on
page 8

Official publication of



Ribbon cutting at McLeod Co-op Power Community Solar Project

McLeod Co-op Power (MCPA) held a ribbon cutting ceremony for the grand opening of its Community Solar Project on June 23. Event participants included some of the members participating in the community solar array, Co-op directors and employees, and representatives from Great River Energy.

Thirty-nine cooperative members have subscribed to 88% of the panels in the array. Twelve panels are still available to any members who want to buy into the project. Members may subscribe to one or more panels at a cost of \$1,550 per panel and receive the kWh output of their share of the array for the next 20 years. Member's electric bills are reduced by the solar kWh credit applied to their bill each month.

The MCPA community solar project has 100 solar panels. It is a 41 kW (dc) system manufactured by tenKsolar of Bloomington, Minnesota. It will actually produce 36 kW (ac) generation for distribution onto the grid, for use by the co-op's members in the Glencoe area. Construction began in April and was completed when the solar arrays were commissioned May 22. They have been producing electricity since that date.

Great River Energy (GRE), MCPA's power supplier, constructed a 20 kW array on the same site. It is part of GRE's generation resources. GRE coordinated overall project management of their array and MCPA's 41 kW community solar project.

Tree Trimming in Hollywood and Hutchinson Townships

Burnham Tree crews have been contracted to do tree trimming work on the co-op's project beginning the end of July. They will be working in Hollywood Township of Carver County and Hutchinson Township of McLeod County.

Benefits of Community Solar Participation

After a significant percentage of MCPA members told the Co-op on its 2014 Satisfaction Survey that they were interested in participating in a community solar project, the Co-op board responded by approving construction of a 41 kW community solar project. Less than one year after that approval, it now has a community solar garden up and running for MCPA electric members. The initial project is nearly sold out with only a dozen panels remaining for subscription. However, the Co-op did allow space for an additional 50-panel array if more members want to participate in the future.

"The Community Solar Project has convinced me that doing solar together with our members who want to participate in a community project, is a smart and easy way to do solar," commented Customer Service Manager Sue Pawelk. "It has provided members with an alternative to putting up a solar array on their roof or in their yard," she added.

Benefits of Community Solar participation:

- Takes advantage of group equipment purchasing to drive down cost.
- No unexpected additional costs. One-time \$1,550 per panel is all you pay.
- You can trust the Co-op to be around for the next 20 years to own, insure, and maintain the arrays so your investment is more secure than if purchased from an out-of-state solar company that may not be around to guarantee the product for the life of the array.
- Provides a monthly credit on your electric bill for all the kWh produced by your share of the array.
- Provides an increasingly greater financial credit as electric rates rise.
- Zero installation or maintenance hassles for members.
- Keeps money in the community and state.
- Less costly for residential members than building their own solar array.
- Participate with your fellow members.
- No personal responsibility for decommissioning and removing equipment at end of its life.
- 100% of the project is paid by the participants.

To buy into the MCPA Community Solar Garden call the Co-op at 1-800-494-6272 or go to the Co-op's web site www.mcleodcoop.com for details and a printable subscriber agreement.

May Outage Summary

During May there were 43 outages reported on the Cooperative's system. Trees hanging over or into power lines caused the most outages in May. It was the reason behind 12 of the 43 outages.

The largest outage affected about 471 consumers. On Saturday, May 16 and Sunday May 17, thunderstorms caused outages in several areas the Co-op serves. The majority of outages were around Hutchinson. The outages were caused by trees blown into power lines, lightning and straight-line winds. Wind snapped a three-phase power pole Sunday morning interrupting power to 241 members for 2.5 hours due to the storm.

The next largest outage was on Thursday, May 14 at 11:34 in the morning. Thirty-three members north of Hutchinson in Acoma Township were without power for two hours. Outage was caused by a tree hanging into the line.

Most outages affect only one or two members. They are frequently caused by small animals, trees in the line, equipment failure, or motor vehicle/machinery accidents. Larger outages affecting hundreds of members at a time are usually caused by transmission outages, storms, equipment failure to substation equipment, or accidents.

Restoration time on weekend and evening outages, when line crews are called out from home, usually take a little longer to get back on than outages when crews are already out working on the project.

Meet the Engineering employees



Standing l to r: Curt Hanson, Greg Nistler, Doug Kashmark, and Dave Keil
Seated l to r: Darrel Beste and Bob Senst

Each month we will feature one or two departments within the Cooperative, so members can have a better understanding of the functions handled behind the scenes. This month we are focusing on the Engineering Department.

The Engineering Department is responsible for planning and staking new services and service rebuilds, line construction design and permitting, Gopher State One Call coordination, mapping, outage dispatching, metering, material inventory, maintenance of the buildings and grounds, and coordinating most testing for poles, transformers, etc. Engineering also completes reporting to state and federal agencies in a variety of areas.

Nondiscrimination Statement

This institution is an equal opportunity provider and employer.

If you wish to file a Civil Rights program complaint of discrimination, complete the USDA Program Discrimination Complaint Form, found online at <http://www.ascr.usda.gov/complaintfilingcust.html>, or at any USDA office, or call (866) 632-9992 to request the form. You may also write a letter containing all of the information requested in the form. Send your completed complaint form or letter to us by mail at U.S. Department of Agriculture, Director, Office of Adjudication, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, by fax (202) 690-7442 or email at program.intake@usda.gov.

Do we have your correct phone number?

Our after-hours dispatch center utilizes a system which relies on your designated telephone number to automatically identify the outage location. That number can be your home, cell or whatever phone number you designate. The system only recognizes the phone number that matches your electric account information (shown in the box in the upper right hand corner of your bill). To update your number please call our office at 1-800-494-6272 during business hours or drop us a note with your payment or e-mail us at mcpainfo@mcleodcoop.com.



Board of Directors

District 1
Oria Brinkmeier, **Lester Prairie**

District 2
Joe Griebie, **Brownston**

District 3
Roger Karstens, Vice President
Hutchinson

District 4
Doug Kirtz, Secretary-Treasurer
Hector

District 5
Allan Duesterhoeft, **Hutchinson**

District 6
Gary Burdorf, **Arlington**

District 7
Randy Hlavka, GRE Representative
Silver Lake

District 8
Keith Peterson, President
Hector

District 9
Gerald Roepke, Asst. Secretary-Treasurer
New Germany

McLeod Cooperative Power News

USPS 2220
Periodicals Postage Paid at Hutchinson, MN
POSTMASTER: Send address changes to
McLeod Cooperative Power News
P O Box 70, Glencoe, MN 55336-0070

The **McLeod Cooperative Power News** is published monthly for \$4.77 per year for members and \$8 per year for non-members by McLeod Cooperative Power Association
1231 Ford Ave. North, Glencoe, MN 55336-0070

Editor: Sue Pawelk
General Manager: Carrie L. Buckley

The McLeod Cooperative Power News is the official member publication of McLeod Coop Power Association and focuses on our members, programs and events.

All member story ideas and comments are welcome.
Send to Sue Pawelk at the address shown.

Office Hours:
Monday - Friday
7:45 a.m. - 4:30 p.m.

Phone: 320-864-3148
1-800-494-6272
24-hour outage: 1-800-927-5685
Fax: 320-864-4850
Web site: www.mcleodcoop.com

Gopher State One Call 811 or 1-800-252-1166

McLeod Cooperative Power Association is an equal opportunity provider and employer.

CAPITAL CREDIT CHECKS THAT CAME BACK

We are looking for current mailing addresses of the following former Co-op members who had capital credit checks returned to us by the post office in 2014 - 2015. These were for 1995 revenue and a portion of 2013 revenue. Please notify our office if you have a current mailing address for anyone listed or you may have the consumer below contact us directly. Thank you for your help.

ADAMIETZ, MARK BROWNTON, MN	BRUEGGEMEIER, BRADLEY A WINSTED, MN	DUENOW, DUANE M ARLINGTON, MN	HARBARTH, EILEEN WINTHROP, MN	KING, JODI A HUTCHINSON, MN	MAILER, RIKKI & TOM ECKMA TUCSON, AZ	PASKET, LANCE WATERTOWN, MN	RYAN, TERRY GLENCOE, MN	SUJESS, MARK HECTOR, MN
AHL, ANTHONY SILVER LAKE, MN	BUCKALEW, WILLIAM E HILLMAN, MN	DUESTERHOEFT, RUTH HUTCHINSON, MN	HARMENING, JAMES HOWARD LAKE, MN	KINGSTROM, MARIE ST LOUIS PARK, MN	MALEJKO, KRIS K AUSTIN, TX	PAUL, MARCIANNA ST PAUL, MN	SABINSKI, ANDREW HUTCHINSON, MN	TABBERTSON, ROBERTA C/O KATIE ROHS HOLLANDALE, WI
AHRENS, WILLIAM & GEORGIANA DEFORGE WINTHROP, MN	BUITENHUIS, GEERTJE E C/O MARGARET ABBOTT HUTCHINSON, MN	EBERLE, DAVID DASSEL, MN	HARSDORF, THOMAS GLENCOE, MN	KINNEBERG, JOHN & TERESA GLENCOE, MN	MARKUSON, CHRIS MINNEAPOLIS, MN	PERIS, JAMES C/O KIM STROMMER OLIVIA, MN	SCHADE, CYNTHIA GLENCOE, MN	TIMMONS, JAMES W LITCHFIELD, MN
ALBERS, GARTH DEER CREEK, MN	BURKE, TIMOTHY & DEB HECTOR, MN	ECK, JOHN MINNEAPOLIS, MN	HARTNECK, GERALD L MONTROSE, MN	KJENSTAD, ALVIN GLENCOE, MN	MARVAN, JOAN S C/O JEFF MARVAN STEWART, MN	PESSEK, RUTH HUTCHINSON, MN	SCHIEBEL, PAUL W EAU CLAIRE, WI	TOURANGEAU, SUSANNA MONTROSE, MN
AMERICAN BANK C/O RYAN PAASCH ST PAUL, MN	BURNS, TIMOTHY R MINNEAPOLIS, MN	ELSHOFF, ROBERT C/O MARY HALEY DAVENPORT, IA	HATCHER, GARY COKATO, MN	KLING, DONALD E & LISA NEW PRAGUE, MN	MATHEWS, MERTLE GAYLORD, MN	PETERSON, DAVIS BLOOMINGTON, MN	SCHIRO, DONAVAN C/O JOAN BRUEGGEMEIER BELLE PLAINE, MN	TOWNE, PHILIP MAPLE PLAIN, MN
ANDERSEN, FRED ST PAUL, MN	BUSHAW, JAMES ST CLOUD, MN	FARNSWORTH, DOUGLAS P BROOK PARK, MN	HAUGEN, MARVIN HUTCHINSON, MN	KLOPFLEISCH, QUINT HUTCHINSON, MN	MAYNARD, ROLLIE BIRD ISLAND, MN	PETERSON, ROBERT W HUTCHINSON, MN	SCHMID, MICHELLE SHAKOPEE, MN	TROCKE, GERALD ARLINGTON, MN
ANDERSON, AUDREY V ELK RIVER, MN	CAL SPAS OF HUTCHINSON HUTCHINSON, MN	BROOK PARK, MN FIMON, KAREN C HUTCHINSON, MN	HAUER, MILDRED WINTHROP, MN	KLUCAS, KEITH & KAREN APPLE VALLEY, MN	MCGRAW, ROBIN & JOE NEW GERMANY, MN	PHILLIPS, KIM D ANNANDALE, MN	SCHMIDT, BRIAN HUTCHINSON, MN	TYDLACKA, ANTHONY R DARWIN, MN
ANDERSON, DARRELL D WINTHROP, MN	CARRUTHERS, JOHN L FRANKLIN, MN	FISHER, R THOMAS ZUMBRO FALLS, MN	HAWKINSON, MARY WINTHROP, MN	KNIGHT, MARTY HECTOR, MN	MCI TELECOM- MUNICATIONS CHICAGO, IL	PIKER, NORMAN BURNSVILLE, MN	SCHMIDT, HARVEY GLENCOE, MN	VAN DAELE, JOY I WINSTED, MN
ANDERSON, DAVED WINSTED, MN	CEDARLEAF, JILL ANDOVER, MN	FISCHER, SCOTT W ST PAUL, MN	HEEREN, ELAINE & THOMAS HUTCHINSON, MN	KOGLIN, AUDREY HUTCHINSON, MN	MELBERG, JULIE HUTCHINSON, MN	PLATH, ERWIN C COKATO, MN	SCHMIDT, MIKE C/O HENRY SCHMIDT COLOGNE, MN	VAN NURDEN, JESSE C HUTCHINSON, MN
ANDERSON, DWAYNE H HUTCHINSON, MN	CENTRAL IA CONTRACTING CORP AMES, IA	FISHER, MICHAEL G HUTCHINSON, MN	HEIL, CHARLES J SILVER LAKE, MN	KOTVAL, KIMBERLY GERMANTOWN, IL	MORGAN, MN POMPLUN, RICKY GAYLORD, MN	POLESKY, WALDEN & EMMANUEL MORGAN, MN	SCHOTTLE, TIMOTHY J STEWARTVILLE, MN	VAN ORT, SHANNON HUTCHINSON, MN
ANDERSON, LYLE A C/O STAN ANDERSON ST PAUL, MN	CHAVEZ, MARIA COKATO, MN	FLORES, BRAD EAU CLAIRE, WI	HELLAND, WENDY LESTER PRAIRIE, MN	KRABILL, DONALD WABASHA, MN	MEUERS, KAREN A C/O KIMBERLY SCHUMAN BELLE PLAINE, MN	SCHRAMM, VIONA GREEN ISLE, MN	STEWARTVILLE, MN SCHRAMM, VIONA GREEN ISLE, MN	VAN SIGNS C/O MARLIN VANDESTEEG BIG LAKE, MN
ANDERSON, PAUL H MAYER, MN	CHERRINGTON, KAREN DULUTH, MN	FLORES, SAMUEL G GLENCOE, MN	HIERLMAIER, KEVIN & JUDY STEWART, MN	KRAFT, DAVID ANNANDALE, MN	MEYER, MICHAEL & TRACY HUTCHINSON, MN	SCHUE, DANIEL R DARWIN, MN	STEWARTVILLE, MN SCHRAMM, VIONA GREEN ISLE, MN	VANDREEL, KIRK J NEW LONDON, WI
ANNEXSTAD, BRETT R COURTLAND, MN	CHEVALIER, CHARLES MENAHA, MN	FOSS, TIMOTHY L SILVER LAKE, MN	HILMANOWSKI, DONALD STEWART, MN	KRITZECK, KRISTY D HOWARD LAKE, MN	MORENO, MARIA A HUTCHINSON, MN	SCHUETTE, LARRY HUTCHINSON, MN	STEWARTVILLE, MN SCHRAMM, VIONA GREEN ISLE, MN	VANZEE, RICHARD KALONA, IA
ANVID, TINA MARIE SAGINAW, MN	CHURCHILL COOP INC OLIVIA, MN	FREITAG, DOUGLAS LAKE LILLIAN, MN	HOECKE, REUBEN MELROSE, MN	KRUEGER, ARNOLD W WINTHROP, MN	MORRIS, RYAN & NANCY HUTCHINSON, MN	SCHULTZ, LARRY & KAREN NEW AUBURN, MN	STEWARTVILLE, MN SCHRAMM, VIONA GREEN ISLE, MN	VOLK, DAVID C/O CHERI HAMNER ALBION, IA
ARENS, MICHAEL CLOQUET, MN	COBURN, LYNDEN FARMINGTON, MN	GALLIPO, CRAIG & PAM HOPKINS, MN	HOWARD, DUANE SEBEKA, MN	KRUSE, JOHN C DEER RIVER, MN	MOTOROLA CRC SCHAUMBURG, IL	SCHWARTZ, CRAIG & ANN HOWARD LAKE, MN	STEWARTVILLE, MN SCHRAMM, VIONA GREEN ISLE, MN	VOTAVA, STEVEN WINSTED, MN
ARENS, PATRICK CROSSLAKE, MN	CONDIFF, TYLER A PARK RAPIDS, MN	GARCIA, GUILLERMO HUTCHINSON, MN	HUBBARD, OWEN & JOANN APACHE JCT, AZ	KUIAWINSKI, DAWN SOUTH RANGE, WI	MURPHY, DAVID F E GRAND FORKS, MN	SEE, DENTON MINNETONKA, MN	STEWARTVILLE, MN SCHRAMM, VIONA GREEN ISLE, MN	WALDNER, TIMOTHY GLENCOE, MN
ARHART, DALLAS D WINTHROP, MN	COOK, J R SILVER LAKE, MN	GARZA, GUADALUPE BELLE FOURCHE, SD	HULTGREN, ANDREW LITCHFIELD, MN	LAKE, JAMES HAMILTON, OH	MURPHY, ROBERT HECTOR, MN	SERVICEMASTER BY NORTON C/O RAYMOND NORTON HUTCHINSON, MN	STEWARTVILLE, MN SCHRAMM, VIONA GREEN ISLE, MN	WALKER, TIMOTHY HUTCHINSON, MN
ARMSTRONG, DAVID HECTOR, MN	CORRADI, BRIAN R WATERTOWN, MN	GEHRKE, ALVIN WINTHROP, MN	HUTCHISON, JOHN ALTOONA, WI	LAMECKER, KENNETH DARWIN, MN	NEATON-HERRON, GENEVIEVE WATERTOWN, MN	SETTERGREN, KENNETH LITCHFIELD, MN	STEWARTVILLE, MN SCHRAMM, VIONA GREEN ISLE, MN	WALLGREN, HELEN WATERTOWN, MN
ARNESON, ROBERT J HUTCHINSON, MN	COWAN, THOMAS D MINNEAPOLIS, MN	GENERAL FOODS OF MN INC LESTER PRAIRIE, MN	JAGER, LYLE H GERMANTOWN, IL	LANDAAS, JAMES GAYLORD, MN	NEISS, JOSEPH KINGWOOD, TX	SHADRICK, KELLEY RICE, MN	STEWARTVILLE, MN SCHRAMM, VIONA GREEN ISLE, MN	WANDERSEE, TODD & MARY MONTROSE, MN
ASAY, DENNIS BATTLE CREEK, MI	COX, CHAD D LONG LAKE, MN	GENUNG, JT PEQUOT LAKES, MN	JAGOW, SHELLEY L NORWOOD YOUNG AMERICA, MN	LANGE DAIRY EQUIPMENT GLENCOE, MN	NELSON, BONNIE K LOWELL, OR	SEE, DENTON MINNETONKA, MN	STEWARTVILLE, MN SCHRAMM, VIONA GREEN ISLE, MN	WARREN, HEATHER & BRIAN MONTROSE, MN
ASCHINGER, WILLIAM T NEWTOWN, PA	CUHEL, SAMANTHA & JARED PIERCE WINSTED, MN	GIESE, RICK J MINNEAPOLIS, MN	JANKE, LORRAINE H WACONIA, MN	LANGENBAU, JOE & LORIE FOLEY, MN	NELSON, DAVID D FT MYERS, FL	SHEEHAN, BRIAN OLIVIA, MN	STEWARTVILLE, MN SCHRAMM, VIONA GREEN ISLE, MN	WEISHER, ANDREW GLENCOE, MN
ASP, WILLIAM J HUTCHINSON, MN	DD CABLE HOLDINGS INC DENVER, CO	GILMER, BRIAN CLAREMONT, MN	JANSEN, PAT DANUBE, MN	LARSON, JUSTIN MONTICELLO, MN	NELSON, DOUGLAS B MINNEAPOLIS, MN	SHOCKMAN, KENNETH MINNEAPOLIS, MN	STEWARTVILLE, MN SCHRAMM, VIONA GREEN ISLE, MN	WELDON, KENNETH M HUTCHINSON, MN
B & P HOGS INC SLEEPY EYE, MN	DAAK, MERLIN C/O JAMIE GERVAIS MINNEAPOLIS, MN	GINDORFF, ROBERT NORWOOD, MN	JENSEN, PETER H EMMONS, MN	LARSON, SCOTT A HUTCHINSON, MN	NELSON, EUGENE HECTOR, MN	SIEBENBRUNER, DALE HARRIS, IA	STEWARTVILLE, MN SCHRAMM, VIONA GREEN ISLE, MN	WENNEN, ROBERT J HILLSBOROUGH, NC
BAKER, JOHN MINNEAPOLIS, MN	DALE, CHARLES R HUTCHINSON, MN	GLUBKA, MIKE COLD SPRING, MN	JELINEK, HELEN L MONTICELLO, MN	LEE, DONALD E FT MYERS, FL	NELSON, FRANK OSAKIS, MN	RICHARDS, MARGARET BUFFALO LAKE, MN	STEWARTVILLE, MN SCHRAMM, VIONA GREEN ISLE, MN	WESTLUND, MONTE & NICOLE ARLINGTON, MN
BARRY, STEVEN H MONTICELLO, UT	DECKER, CHAD BROWNTON, MN	GODING, ROBERT WHITEHOUSE, TX	JENSEN, KEITH D COLUMBIA, MO	LEE, YOUA BROOKLYN CENTER, MN	NELSON, STUART, & CAROL HUTCHINSON, MN	RIVERS, MARK L HUTCHINSON, MN	STEWARTVILLE, MN SCHRAMM, VIONA GREEN ISLE, MN	WILKIE, ROGER C/O SHARON WILKIE DUNSEITH, ND
BAUMANN, LISA GIBBON, MN	DEL FIACCO, ROGER ROSEMOUNT, MN	GREAT PLAINS SUPPLY INC WAITE PARK, MN	JENSEN, MARVIN HUTCHINSON, MN	LEMBKE, THOMAS HUTCHINSON, MN	NEXTEL COMMUNICATION INC COLUMBUS, OH	ROBINSON, DENISE C/O TOBIN ROBINSON HUTCHINSON, MN	STEWARTVILLE, MN SCHRAMM, VIONA GREEN ISLE, MN	WILLIAMS DAVID ARLINGTON, MN
BEACH, DAVID PORTER, MN	DEUTCHMAN, I E ELK RIVER, MN	GRIMM, MILAN BUFFALO LAKE, MN	JOHNSON, DAVID L ST BONI, MN	LEWELLYN, ROBERT & THERESA ST CLOUD, MN	NIESEN, RANDY WATERTOWN, MN	ROBINSON, PATRICK & CINDY MINNETONKA, MN	STEWARTVILLE, MN SCHRAMM, VIONA GREEN ISLE, MN	WYATT, DAVID & LORRAINE ELK RIVER, MN
BEHRENDT, CASH GLENCOE, MN	DLUGOPOLSKI, CHARLENE DASSEL, MN	GROCHOW, MRS RUTH HAMEL, MN	JOHNSON, STEPHEN D DAVENPORT, FL	LILLEMOM, JOHN & CARMEN HUTCHINSON, MN	O'BREIN, MARGARET MINNEAPOLIS, MN	ROUSHAR, KELLY EDEN PRAIRIE, MN	STEWARTVILLE, MN SCHRAMM, VIONA GREEN ISLE, MN	ZAHLER, JULIE M EDEN PRAIRIE, MN
BENING, NANCY STEWART, MN	DOERING, LAWRENCE GRAND CANYON, AZ	GUNNINK, DOUGLAS & JANET ARLINGTON, MN	JOHNSON THAD & SARA LITCHFIELD, MN	LINK, CODY T HUTCHINSON, MN	OBBERG, JERALD MINNEAPOLIS, MN	RUDOLPH, CLAYTON RED LAKE, MN	STEWARTVILLE, MN SCHRAMM, VIONA GREEN ISLE, MN	ZELLMANN, DONALD W YOUNG AMERICA, MN
BETHKE, SOPHIE STEWART, MN	DOERING, TIMOTHY LITCHFIELD, MN	HALONEN, DREW BROOKLYN PARK, MN	JONES, DARRYL WINSTED, MN	LONG, ARLIN HUTCHINSON, MN	OLSEN, LILLIAN C/O NANCY CONNORS AIRWAY HEIGHTS, WA	ROSS, JEFF ARLINGTON, MN	STEWARTVILLE, MN SCHRAMM, VIONA GREEN ISLE, MN	ZIEGLER, DAVID HUTCHINSON, MN
BICKMAN, MICHAEL J LESTER PRAIRIE, MN	DOERR, WALTER C/O LARRY DOERR BUFFALO LAKE, MN	HALVORSON, CLINTON G C/O GARY HALVORSON PLYMOUTH, MN	JUSTINGER, RICHARD C BLOOMINGTON, MN	LORENTZ, STEVEN & ELIZABETH PLAINFIELD, IL	OLSON, SCOTT M MONTROSE, MN	ROUSHAR, KELLY EDEN PRAIRIE, MN	STEWARTVILLE, MN SCHRAMM, VIONA GREEN ISLE, MN	
BJORKLUND, THOMAS R ST PAUL, MN	DOERR, WALTER C/O LARRY DOERR BUFFALO LAKE, MN	KARG, KAREN M HUTCHINSON, MN	KARG, KAREN M HUTCHINSON, MN	LUDOWESE, MICHAEL R C/O JIM LUDOWESE STEWART, MN	ONDRAK, ARTHUR E C/O TOM ONDRACK FT COLLINS, CO	RUDOLPH, CLAYTON RED LAKE, MN	STEWARTVILLE, MN SCHRAMM, VIONA GREEN ISLE, MN	
BOBS BODY & PAINT SHOP C/O BOB VANORDEN HILTON HEAD ISLAND, SC	DEGOLIER, DANIEL CHASKA, MN	KEEFE, JOHN E C/O JEANINE ALLEN ANDOVER, MN	KEEFE, JOHN E C/O JEANINE ALLEN ANDOVER, MN	LUEHRING, STEVE CENTRALIA, MO	OTTO, CELIA & CORINN J C/O KEN OTTO ISANTI, MN	RUNKE, FRIEDA COSMOS, MN	STEWARTVILLE, MN SCHRAMM, VIONA GREEN ISLE, MN	
BONINE, MILAN PAYNESVILLE, MN	DOSTAL, RICHARD GLENCOE, MN	KEITH, JENNIFER L LAFAYETTE, MN	KEITH, JENNIFER L LAFAYETTE, MN	M & M AUTO RECYCLERS EDEN PRAIRIE, MN	OTTO, ELMER C/O MARY OTTO FOND DU LAC, WI	RUSSELL, JEFFREY A HUTCHINSON, MN	STEWARTVILLE, MN SCHRAMM, VIONA GREEN ISLE, MN	
BONNIWELL, CLARK G CASA GRANDE, AZ	DRIESSEN, KENT W ELK RIVER, MN	KEPLER, JEFFREY D HUTCHINSON, MN	KEPLER, JEFFREY D HUTCHINSON, MN	MACK, RONALD YELM, WA	OTTO, KEVIN P EAU CLAIRE WI	RYAN JOHNSON GROUP MOUND, MN	STEWARTVILLE, MN SCHRAMM, VIONA GREEN ISLE, MN	
BOLLIN, STEVE & KARIE DARWIN, MN	DRONEN, GEORGE INDIAN RIVER, WI	KIEKE, SHEILA HUTCHINSON, MN	KIEKE, SHEILA HUTCHINSON, MN	MAIERS, WAYNE & SUSAN BUFFALO LAKE, MN			STEWARTVILLE, MN SCHRAMM, VIONA GREEN ISLE, MN	
BRODKORB, LORI A HUTCHINSON, MN							STEWARTVILLE, MN SCHRAMM, VIONA GREEN ISLE, MN	

Ground source heat pumps provide the most efficient, low-cost electric heating and cooling available

Ground source heat pumps (GSHP or geo thermal unit) have been used in residences for decades. However, they are gaining in popularity as fuel oil and propane prices increase and environmental concerns rise. Their energy efficiency — up to 300+ percent in some installations — is the most attractive feature of a geo thermal unit. Other pluses include the very low maintenance, long system life, and comparatively low operating cost.

A GSHP is an electrically powered heating and air conditioning system that uses the earth's ability to store heat in the ground. The GSHP system operates based on the stability of underground temperatures. The ground a few feet below the surface has a very stable temperature throughout the year, depending upon the location's annual climate. A GSHP system uses that available heat in the winter and puts heat back into the ground in the summer. A GSHP system differs from a conventional furnace or boiler by its ability to transfer or "pump" heat, versus the standard method of producing heat. As energy costs continue to rise and emissions become a concern, GSHP systems hold a solution to address both of these concerns.

Types of GSHPs

There are four basic types of ground loop systems. Three of these — horizontal, vertical, and pond/lake — are closed-loop systems. The fourth type of system is the open-loop option, which is not common in our area and may not be allowed by zoning ordinances. Which one of these is best depends on the climate, soil conditions, available land, and local installation costs at the site. For this purpose, we'll discuss only the first three systems.

Closed-Loop Systems: Horizontal

This type of installation is generally most cost-effective for residential installations, particularly for new construction where sufficient land is available. It requires trenches at least four feet deep. The most common layouts either use two pipes, one buried at six feet, and the other at four feet, or two pipes placed side-by-side at five feet in the ground in a two-foot wide trench. The Slinky™ method of looping pipe allows more pipe in a shorter trench, which cuts down on installation



Meeker Co-op Energy Management Technician Allen Lendt checks out a geo thermal unit installed in a crawl space under the Stubson's Lake Minnie Belle home.



Dale Brenhaug of Mid MN Geothermal Services, Inc. using this boring machine to insert pipes through the ground, eliminating the need to disturb yards with extensive digging.

costs and makes horizontal installation possible in areas it would not be with conventional horizontal applications.

Closed-Loop: Vertical

Large commercial buildings and schools often use vertical systems because the land area required for horizontal loops would be prohibitive. Vertical loops are also used where the soil is too shallow for trenching, and they minimize the disturbance to existing landscaping. For a vertical system, holes (approximately four inches in diameter) are drilled about 20 feet apart and 100–400 feet deep. Into these holes go two pipes that are connected at the bottom with a U-bend to form a loop. The vertical loops are connected with horizontal pipe (i.e., manifold), placed in trenches, and connected to the heat pump in the building.

Closed Loop: Pond/Lake

If the site has an adequate water body, this may be the lowest cost option. A supply line pipe is run underground from the building to the water and coiled into circles at least eight feet under the surface to prevent freezing. The coils should only be placed in a water source that meets minimum volume, depth, and quality criteria.

GSHP systems provide maximum efficiency for your home. Research shows that GSHPs:

- Are the most efficient residential heating and cooling systems available today
- Provide heating efficiencies 50% to 70% higher than other heating systems and cooling efficiencies 20% to 40% higher than available air conditioners
- Yield energy savings of 20% to 50% which results in recouping your investment in only a few years
- Can provide a combination of heating/cooling and hot water heating system
- Can save you up to 50% on your water-heating bill by preheating water
- Are made of mechanical components that are either buried in the ground or located inside the home — no exposed equipment outdoors



The old way of installing tubing involved digging trenches and laying the tubing into the trench, which was invasive and more expensive.



The gray pipe is boring holes through the yard and into a nearby field. The holes will ultimately be filled with geo thermal tubing.

- Are about the same size as a traditional heating/cooling unit
- Are very quiet, providing a pleasant environment inside and outside the home
- Have no open flame, flammable fuel or potentially dangerous fuel storage tanks
- Have inside units small enough to fit most places

The Stubsons of Lake Minnie Belle love their GSHP

When Brian and Betsy Stubson contacted the Co-op a little more than a year ago, they were suffering under volatile propane prices and wanted a more efficient and low-cost alternative.

"Last year it cost us about \$4,000 to heat our home," Betsy said. "And we didn't have any air conditioning."

"It was just ridiculous," Brian said. "We felt very vulnerable."

Although last year's heating bill was extreme, previous years' heating bills weren't low, either.

"We averaged between \$2,500 to \$3,000 a year to heat our home," Betsy said.

Ultimately they decided to install a closed-loop horizontal ground source heat pump system, with the ground loop extending 180 feet under their current driveway.



The hole on the end of the pipe will accept the geo thermal tube (right). As the pipe is retracted, the tubing is pulled through the bored holes.



This geo thermal tube will be pulled through the bored holes in the ground. The tubes will circulate an anti-freeze mixture, drawing heat from the ground and transferring it into the home.

After a full year of using the system, the Stubsons couldn't be happier.

"We love it!" Betsy said. "It's the best thing we've ever done. Last year our ground source heat pump operating cost was \$412.48 for the entire year and that includes central air, which we had never had before."

The Stubsons were able to take advantage of federal tax credits that saved them 30 percent of the installation costs, or about \$10,000. In addition, substantial rebates from the Co-op helped bring the up-front costs down as well.

"With the tax credit and rebates, we are looking at a payback of about seven years," Betsy said.

"We would highly recommend this system to anyone, and to our contractor Plumbing & Heating by Craig of Hutchinson, who installed the system."

Anyone wishing to install a GSHP should be aware that federal tax credits are set to expire December 31, 2016. Talk to the Co-op if you'd like more information on this or any other energy efficient heating and cooling system.

Industry News

Lower-cost LEDs offer some competition to compact fluorescent lights

For years, lighting manufacturers have labored to make LED lights mimic the warm feel of incandescent bulbs. But what they offered in features and quality, they could not match in price. As a result, many consumers and businesses looking for efficiency and lower cost opted for compact fluorescent lights, even if the light quality was often seen as worse. Now, LED manufacturers say there is little need to make that choice.

On Wednesday, General Electric announced the Bright Stik, a cylindrical 60-watt equivalent available in soft white for \$9.97 for a three-pack through Home Depot. It follows a new LED from Philips, which last month came on the market at \$4.97, with a two-for-one deal for the first 90 days. And TCP, a company that makes energy-efficient lighting under its own brand as well as for Home Depot and Walmart, has an LED on the market for \$4.88. As prices have steadily dropped — in part because of government regulations making it easier for more LEDs to qualify for generous discounts — consumers have been moving to them.

Compact fluorescents still far outsell LEDs, representing 40 percent of bulb shipments for the most popular consumer models in the first quarter of this year, versus 6 percent for LEDs, according to the National Electrical Manufacturers Association, a trade group. But experts say that demand for compact fluorescents is dwindling, while it is rising for LEDs. Compact fluorescent shipments were down by almost 10 percent for the first quarter compared with the same period last year, while shipments of LEDs were up by more than 150 percent, according to the manufacturers' association.

~New York Times




Heartland Security protects your home and family

Heartland Security provides alarm systems for homes and businesses as well as medical alert systems. We also offer interactive services available through your smartphone that allow you to arm or disarm your system, control your lights and thermostat, or view live video.

Heartland Security is a two-time winner of the Security Pro Dealer of the Year award and protects more than 7,000 customers in western and southern Minnesota and northern Iowa.

Call us today for a **free**, no obligation security analysis and quote!

1-888-264-6380
HEARTLANDSS.COM

**ALWAYS
CALL
BEFORE YOU
DIG**



\$100 off water heater coupon expires July 31

Reminding members that anyone planning to use the \$100 off Marathon water heater coupon from the Co-op's May newsletter only has until July 31 to redeem it. Members must be participating in or joining the water storage program to utilize the coupon.



Please do not plant trees under power lines

Trees planted under power lines eventually grow tall enough to require regular trimming to keep them out of the lines. It is very expensive to trim trees and it is paid for by you, our members. Help us keep costs down by planting trees away from power lines. This saves us all money and reduces the frequency of power outages.

MCPA News Ads — Free want ad service for members.

Please limit your ad to nine words. Use the coupon printed below or available at McLeod Cooperative's front desk to submit your ad. Ads will be printed for one month only. Please submit a new ad if you want it published more than one month. Include your name and address, which will be used for identification purposes only. Ads must be received by July 28 to be included in the August issue. Thank you!

Please run this ad in the next MCPA News

Name: _____

Address: _____

Telephone number: _____

Remember to limit your ad to nine words!

1 _____ 2 _____ 3 _____

4 _____ 5 _____ 6 _____

7 _____ 8 _____ 9 _____

Clip and Send to: McLeod Cooperative Power, ATTN: Classified Ads
P.O. Box 70, Glencoe, MN 55336

Please check ad category

Giveaway

For Rent

For Sale

Wanted

For Sale - Miscellaneous

- 4 X 8 trailer, heavy duty. Got to see it. \$900. 320-328-5748
- 1981 Jayco-Heritage motorhome. Runs. AC/Heater. Call for details. 320-587-4446
- 50+ vintage ladies hats. Most older than 60 yrs. B/O. 320-328-4041
- Assortment steel and wood post \$2/each. Plastic snow fence. 320-587-8065
- 6ft Farm King finishing mower 3pt. \$425/obo. 320-223-1375

For Sale - Farm

- Gravity box seed wagon w/brush auger and canvas. 320-583-7360

- Small square alfalfa and grass hay bales. 320-522-2167
- 336 JD Baler. 320-864-4496
- 3 hay racks. 320-864-4496
- 2 used tractor tires 18-4-28 6 ply. 320-864-4496

Giveaway

- RCA TV 27 inch wood console cabinet w/glass doors/shelves. 320-848-2660

Wanted

- Silo staves. 507-964-2419

Cleaning out your garage, attic or spare room? Try listing it for free in the MCPA classifieds.

These want ads are designed to help members buy items from or sell items to other members, or rent their property to members. They are not designed to advertise services or for-profit business pursuits. That is why we do not offer a services column and do not accept advertisements for commercial businesses.

Disclaimer – McLeod Cooperative Power Association (MCPA) assumes no liability for the content of, or reply to, any item posted. The party posting any advertisement assumes complete liability for the content of, and all replies to, any advertisement and for any claims against MCPA as a result thereof, and agrees to indemnify and hold MCPA harmless from all costs, expenses, liabilities and damages resulting from, or caused by, any advertisement or reply thereto.

Small town charm...

BIG CITY

Internet speeds

UP TO **12 Mbps** DOWNLOAD SPEED

STARTING AT ONLY **\$49⁹⁹ MO**

McLeod Cooperative Power

(800) 494-6272

AUTHORIZED DEALER

Service not available in all areas. Minimum 24 month commitment term. \$9.99/month equipment lease fee plus monthly service fees and taxes apply. Non-standard installation may result in additional charges. Equipment must be returned upon cancellation of service to avoid unreturned equipment fees. Actual speeds will vary. Use of the Exede service is subject to data transmission limits measured on a monthly basis. For complete details and the Data Allowance Policy, visit www.exede.com. Exede is a registered service mark of ViaSat, Inc.

Ridgewater College students receive scholarships from unclaimed capital credit fund

The Cooperative donates funds from unclaimed capital credits to the Ridgewater College Foundation. The Foundation awards scholarships to students from the four-county area served by MCPA. Students have to either have graduated from a high school in one of the communities within our service area or be a current resident of the area.

Students receiving scholarships for spring semester 2015 from MCPA were:

Jeremy Dannewitz of Redwood Falls
Kristin Horstmann of Winsted
Ashley Jacques of Cologne
Hannah Litzau of Lester Prairie
Brett Rickheim of Stewart
Dannielle Winkelmann of Hector

Recipients for the fall semester of 2015 will be:

Andrew Bennin of Hutchinson
Nicholas Brelje of Glencoe
Michael Boesche of Glencoe
Mirisa Schwalbe of Chaska,
Kama Hill of Hutchinson
Eric Monson of Hutchinson

Scholarship recipients are selected by the Ridgewater College Foundation, based upon criteria provided by MCPA.

Food Safety

If the power is out for less than four hours, then the food in your refrigerator and freezer will be safe to consume. While the power is out, keep the refrigerator and freezer doors closed as much as possible to keep food cold longer.

If the power is out for more than four hours, follow the guidelines below:

- For the freezer section: A freezer that is half full will hold food safely for up to 24 hours. A full freezer will hold food safely for up to 48 hours. Do not open the freezer door.
- For the refrigerated section: Pack milk, other dairy products, meat, fish, eggs, and spoilable leftovers into a cooler surrounded by ice. Inexpensive Styrofoam coolers are fine for this purpose.
- Use a food thermometer to check the temperature of your food right before you cook or eat it. Throw away any food that has a temperature of more than 40 degrees Fahrenheit.

Source: CDC



Notice to Cogenerators

In compliance with Minnesota Rules Relating to Cogeneration and Small Power Production, Chapter 7835, McLeod Cooperative Power Association is required to interconnect with and purchase electricity from cogenerators and small power producers that satisfy the conditions of a qualifying facility. McLeod Cooperative Power will provide free information to all interested members regarding rates and interconnection requirements. An interconnection application is required and subject to approval from the cooperative before a qualifying facility interconnects and operates in parallel with the cooperative's distribution system. Any disputes over interconnections, sales and purchases are subject to resolution by the Minnesota Public Utilities Commission. For more details, visit www.mcleodcoop.com or call Sue Pawelk at 1-800-494-6272.

Marathon — Hot Water For Life.

For many people the demands of work and family leave little time for leisure. With busy lives, who has time to deal with a water heater that needs frequent attention and replacement? Today, when people look for reliability and durability—they choose Marathon water heaters.

Marathon WATER HEATERS

Rebate program for 2015

Ground Source Heat Pumps (controlled or uncontrolled)

Residential \$400/ton
 Commercial \$400/ton

Air Source Heat Pump**

14.5 SEER \$480
 15 SEER \$580
 16 SEER or higher \$630

Ductless Air Source Heat Pump \$300

Storage Space Heating \$40/kW

ECM Motor \$100

ENERGY STAR Dehumidifier \$ 25

Storage Water Heating* \$300

ENERGY STAR Refrigerator

with recycling of old unit \$75

ENERGY STAR Freezer

with recycling of old unit \$75

Recycling of old refrigerator or freezer

with documented proof of recycling \$75

LED Yard Light \$60

ENERGY STAR Swimming Pool

Variable speed pump \$200

Air source heat pump \$400

*\$300 Marathon or equivalent energy rated heater that is being installed on the Storage Program.

There is a \$2,000 maximum rebate per member. Rebates are always on a first come, first serve basis so please turn your paperwork in promptly. Rebate forms are available for download from the Co-op's web site. Air source heat pump rebate form should be completed by the installing contractor.



**Rebates for high-efficiency heat pumps will continue to require installation by a "registered contractor" which has been designated as a quality installer and is listed on the hvacaducation.net web site. A list of all "registered contractors" in Minnesota is on our Cooperative web site at www.mcleodcoop.com. There will be no rebates on central air conditioners in 2015. The Cooperative encourages any member replacing their air conditioner to upgrade to an ENERGY STAR rated air source heat pump.

* Rebate forms must be received by Dec. 21, 2015 to be eligible for 2015 rebates.

McLeod Co-op Power is upgrading our electric system. We are investing in new equipment, including new meters, that will help us operate more efficiently, improve reliability, and serve you better.



About 30% of the meters on our system have already been upgraded. Over the next nine months to one year we hope to complete the rest of the meter upgrades. So far, the cooperative is pleased with the performance of the new meters. The 2,500+ meters that are installed in the field have been reporting meters readings to us regularly and the system is already helping us find ways to operate our system more efficiently.

Chapman Metering has been hired to exchange member's old meters with new two-way meters. You may see their white van in your neighborhood when they are installing in your area. When they come to exchange your meter, they will knock on the door to let you know why they are at your residence. The majority of members will not experience any interruption in their power. Some members may experience an outage lasting usually less

than one minute, which will require resetting digital clocks. The installer will leave a door hanger at your home to let you know your meter was exchanged.

We apologize to members for not being able to notify you in advance of the specific day your meter will be exchanged. We do not have the additional staff required to coordinate the installer's route and make daily calls to members (many which no longer have land lines and have not provided us with their cell phone contact information). Notifying all members would be a difficult, if not impossible task.

We are discovering that this upgrade will definitely help us provide improved service to our members.

Cooperative opens online store for MCPA members only

Store features LED light bulbs and energy conservation products

McLeod Cooperative Power members now have their own online store for purchasing LED light bulbs and energy conservation products. The site is designed to make shopping for household LED light bulbs easier for our members. All types and styles of LED bulbs available are EnergyStar certified and are warranted for several years. Many are made in the USA. The most popular household LED bulbs are eligible for a \$5 per bulb rebate, which is applied before you submit your order — giving you instant savings! For example, if you ordered six TCP 10-Watt A-Lamps @ \$6.79 each, you get a \$30 rebate applied to your order, bringing your cost to \$1.79 per bulb plus shipping.



The site also gives members access to energy conservation products like faucet aerators, low-flow showerheads, programmable thermostats, Kill-A-Watt energy usage monitors, motion and photo controls, weatherization products, hard-to-find LED lights for special applications, and LED yard lights. These items are not instantly rebated, however, it gives MCPA members access to high-quality and



high-efficiency products that are sometimes hard to find.



Members can get to the store via McLeod Co-op Power's website (www.mcleodcoop.com) and clicking on the

Lighting Store link on our home page. Members who do not have internet access can still order light bulbs and items via telephone (1-877-738-6824). Make sure to identify yourself as a McLeod Co-op Power member so you get the \$5 rebate on the featured household bulbs. All products will be shipped right to your home by our fulfillment partner Service Concepts, a cooperative business in Indiana.

Farmfest 2015 – August 4, 5, 6! Gilfillan Estate in Redwood County, MN



**THE Largest Outdoor
Agricultural Event
in Minnesota!**



As a trusted resource with 34 years of proven credibility, Farmfest connects industry leading manufacturers/providers with decision making producers. Visit the Co-op booth #2301 in the Ag tent. Bring in your coupon for a free LED light bulb.

- Connects 35,000+ attendees with over 625 local and leading companies in the farming industry.
- Features highly topical educational and political forums highlighting topics relevant to the issues that face today's farmers.
- Presents successful field demonstrations which feature the latest technological advancements in the farming industry.
- Offers programs and entertainment for the family.

Farmfest strives to provide both the traditional programs that bring attendees back year after year while also offering new dynamic events and programs which are designed both to entertain and entice new attendees.

Join us for the 34th Annual Farmfest, August 4-6, 2015 at the Gilfillan Estate in Redwood County, (28269 Minnesota 67, Morgan MN 56266).

Use this Farmfest Coupon to receive a FREE LED bulb compliments of McLeod Cooperative Power!

Farmfest Hours —

Tues., Aug. 4 – 8 a.m. to 5 p.m.
Wed., Aug. 5 – 8 a.m. to 5 p.m.
Thurs., Aug. 6 – 8 a.m. to 4 p.m.

Admission \$12 per person –

Visit us at Farmfest 2015 as we promote energy awareness along with other Touchstone Energy Cooperatives from Minnesota.

Emerging technologies make it easier to be energy efficient and raise awareness of your energy use.

Bring this coupon to booth #2301 in the Ag Tent on Aug. 4-6 to receive a FREE LED bulb.*



* MUST HAVE COUPON. SORRY, NO EXCEPTIONS.

LED lights cost only pennies to operate and last tens of thousands of hours!
Thank you for being a Cooperative member.

