# CHR6ED UP

# Cooperative task force studies future impact of electric vehicles

vehicles are likely here to stay.

While electric and plug-in hybrid electric vehicles currently make up less than one percent of the cars and trucks on Iowa's roads, those numbers are expected to climb dramatically over the coming decade.

Legacy automakers including Ford, General Motors, and Toyota have all announced multibillion dollar investments into developing new electric vehicles (EV) and battery technologies. As costs drop and consumers become increasingly comfortable with EVs, industry analysts expect to see double digit yearly growth, with some predicting electric vehicle sales to possibly double annually.

Currently, the state is adding approximately 4,000 EVs each year. Locally, Midland Power Cooperative's seven largest counties saw an increase of 45 percent in EV registrations from 2020-2021.

While there are still relatively few EVs on Midland's lines, that's poised

Love them or hate them, electric to change. Nationally, 50 percent of consumers planning to purchase a vehicle in the next 24 months say they're considering an EV or hybrid

> Last year's passage of the Inflation Reduction Act is also helping drive demand. The act cemented and expanded the existing \$7,500 tax credit for new electric vehicles, removing the lifetime cap per manufacturer. It also makes used electric vehicles eligible for a \$4,000 tax credit, a move industry watchers say will help boost traditionally low resale values.

#### PLANNING FOR GROWTH

To ensure Midland's distribution system is ready to accommodate this potential growth, the co-op formed a special employee EV task force last fall.

Charged with performing a detailed analysis on the possible impacts of widespread EV adoption in our area, the panel was comprised of employees from both the energy services and engineering depart-



Midland Power Cooperative foreman Barry Munson looks over the front storage compartment of a Ford F-150 Lightning at a recent EV employee education event.

ments. Together, they worked to identify the unique challenges and opportunities the rapid adoption of EVs could pose. The team also evaluated best practices and alternative rate structures at co-ops around the state and country.

Among their key findings were:

- The need to explore new tools and rate structures to help members better understand how their charging habits impact the co-op's bottom line.
- Planning for near term potential load growth primarily in the Story County area, to ensure adequate substation and distribution capaci-

ty for both residential and commercial chargers.

 Developing educational outreach programs for members and employ-

"We recognize that electric vehicles have benefits and drawbacks," said Larry Beilke, Midland Power energy service advisor and chair of the EV task force. "Our goal as a co-op is to be a resource for those members who have EV questions.

"Just like we support an 'all of the above' strategy when it comes to electric generation, we also support

Continued on page 4





Midland Power Manager of Energy Services Roger Hammen presents an energy efficiency rebate check to Ryan Caskey, Camp Sacajawea site

# Girl Scouts tap heat pumps for camp cabins

new and existing cabins at Camp Sacajawea northeast of Boone, they turned to an increasingly popular and proven technology: ductless heat

These highly efficient alternatives to radiator or baseboard electric heaters provide heat in the winter, while also providing cooling in the summer.

Due to their compact size, no duct work is needed. Instead, a head unit, or multi-

When it came time for the ple head units, are mounted home's - or in this case cabin's Girl Scouts of Greater Iowa on an interior wall or ceilto install cabin heating and ing, with an accompanying cooling systems on several unit outside. The outside unit extracts heat from the air, even when it's cold. Refrigerant carries the heat directly to the heads inside, which then delivers heated air to occupied space. In warmer months, the system works in reverse for quiet, efficient air conditioning.

> ENERGY STAR qualified units use up to 60 percent less energy than standard home electric radiators, saving members a significant amount of money on their

heating and cooling bills.

The camp, which sits on 430 wooded acres, installed seven, 1.5-ton units on four new and three existing cabins. In addition, the camp also installed a traditional air source heat pump in a home on the property. Combined, the eight units qualified for more than \$4,200 in energy efficiency rebates.

For more information on Midland's heat pump rebates, please visit MidlandPower. coop/HVAC or call one of our local energy service advisors at (800) 833-8876.





# Planning for a new grain bin? Let us help keep you safe!

constructing a new grain bin this season, Midland Power is here to help. We can work with members to help ensure the new bin is safely located, providing clearance from nearby power lines.

The State of Iowa requires specific clearances for electric lines around grain bins, with different standards for those filled by portable and permanent augers, conveyors, and elevators.

The images below include a drawing of the specific clearances required for both scenarios. If you have any questions concerning the drawings, please contact us.

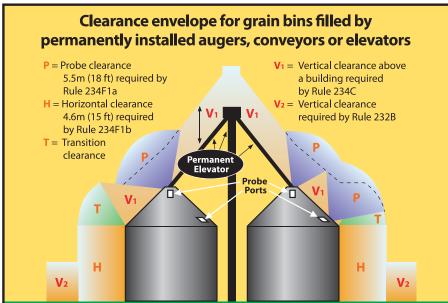
According to the Iowa Electric Safety Code found in Iowa Administrative Code Chapter 199 -- 25.2(3) b., an electric utility may refuse to provide electric service to any grain bin built near an existing electric line which

thinking about does not provide the clearances required by the American National Standards Institute (ANSI)C2-2012 "National Electrical Safety Code," Rule 234F. This paragraph "b" shall apply only to grain bins loaded by portable augers, conveyors or elevators and built after September 9, 1992, or to grain bins loaded by permanently installed augers, conveyors, or elevator systems installed after December 24, 1997. (As adopted by the Iowa Utilities Board)

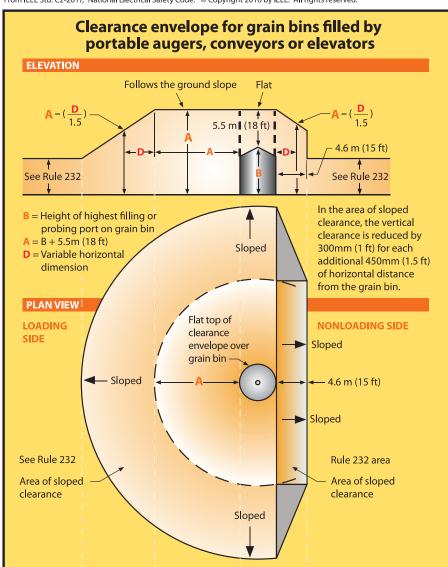
The cooperative is required by the Iowa Utilities Board to provide this annual notice to farmers, farm lenders, grain bin merchants, and city and county zoning officials.

If you have any questions, please call Midland Power Cooperative at (800) 833-8876, Corn Belt Power Cooperative at (515) 332-2571, or Central Iowa Power Cooperative at (319) 366-8011.

Disclaimer: These drawings are provided as part of lowa electric cooperatives' annual public information campaign and are based on the 2017 Edition of the National Electrical Safety Code. To view the actual drawings, refer to that publication. Every care has been taken for the correctness of the contents for these drawings. However, the lowa Association of Electric Cooperatives and its member cooperatives accept no liability whatsoever for omissions or errors, technical inaccuracies, typographical mistakes or damages of any kind arising from the use of the contents of these drawings, whether textual or graphical.



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# Help reunite "lost members" with their dividend checks

We mailed patronage dividend checks to the following individuals and businesses at the addresses we had on file, but they were returned as undeliverable. If you are still in contact with any of these former "lost members," please have them call Dana at (515) 709-3907 or (800) 833-8876 to provide a current address. Thank you!

to provide a current address. I nank you!	
JOSH ABATECHERYL ACHTERBERG & JOHN BRIGHTON	RADCLIFFE, IA
MARVIN & RUTH ANDERSON	DAYTON, IA
VINCE & JOLENE ANKRUM	NEVADA. IA
VERONICA ANTONIO-CASTROSARA APPLEGATE	HUMBOLDT. IA
DEREK BECKNAL BETTY & JOHN BOTTEMA JR	APO. AE
CHAD & BRANDY BROCKELSBY	JEFFERSON, IA
ADAM BROOKS	STANHOPE. IA
JULIE BROWNCHARLES & JUDITH BROWN	AMES. IA
NORMA BRYANT EVERETT & ARLENE BURRES	PLYMOUTH. MN
TERESA CALDERON	OTTUMWA, IA
DENNIS CARLSONCAROLYN CARSON-MCCULLOUGH	MADRID, IA
CENTRAL IOWA SOY	JEFFERSON, IA
VIRGINIA CHRISTENSEN	HUMBOLDT, IA
KARL CITURSRANDY & SHARON COLLINS	ARMSTRONG, IA
TROY & CAROL COLLINS	POTOSI, WI
CHARLES COVELLSHAWN & CARISA DANIELSON	AMES, IA
JOHN & CAROL DAUGHENBAUGH	OSKALOOSA, IA
KENNY DUNCANKRISTEN DUNHAM	DES MOINES, IA
CORY EASTMANEKHO GROUP INC	GILMORE CITY, IA
JENNIFER FABER	ALGONA, IA
GENE & DEBRA GENGELBACHAMY & BARRY GILMAN	
GOLDEN AGES ENTERPRISES LLC.	COON RAPIDS, IA
ROBERT & BRENDA GOODKNIGHTJON & LINDA GOOKIN	
CODY & AMANDA GULBRANDSON	FULLERTON, NE
SARA HALL-GLADWINERIK HALSRUD	DES MOINES, IA
GREG & CHRISTA HARTSOOK	CAMBRIDGE, IA
DARIN & KRISTINE HENDRICKS DENNIS & CAROLYN HIDLEBAUGH	ROCHESTER. MN
MARY HOSFORD	PEWAUKEE. WI
JEREMIAH & AMBER HOYT	SCRANTON, IA
TREVOR & SHANNON JENSEN	FORT DODGE, IA
JUDGE & PATTY JOHNSTON	STORY CITY, IA
MARTHA KAYSER	
KYLER KINER	RIPPEY, IA
CANDY KOPP	JEWELL. IA
DEBRA LAMPRECHT	ALGONA. IA
STEVEN & BECKY LANN DALE & JESSICA LIEKWEG	ACKLEY, IA
JASON & KARI LOWE	LONE ROCK, IA
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MONICA MADDEN	BOONE. IA
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# Midland announces 2023 scholarship winners

\$3,000 in scholarships to deserving area students.

Henry Souhrada of Madrid was

awarded \$1,000 Midland Power scholarship. Souhrada is a graduate of Madrid High School and is currently attending Des Moines Area Community Col-



Henry Souhrada

lege in Boone where he is a pre-engineering student. Souhrada plans to transfer to Iowa State University and graduate with a degree in civil engineering. Ultimately, he hopes to apply his passion for creative engi-

Midland Power recently awarded neering to designing and building and basketball teams. bridges.

> Hannah Chesnut of Boone also received a \$1,000 Midland Power scholarship. The Boone High School

senior plans to double major, pursuing degrees in kinesiology and food science, with the ultimate goal of earning her doctor of physical therapy degree. During her time



Hannah Chesnut

as a Toreador, Chesnut has served terms as treasurer for the National Honor Society, vice president on the student council, and as team captain on both the varsity volleyball

Julianne Lundvall was selected to receive a \$1,000 Basin Electric Power Cooperative scholarship. Lundvall is a senior at Gilbert High School where she's combined her love for

athletics - participating in volleyball, basketball, and track and field – with a stellar academic record. Lundvall plans to attend Luther College in the fall where she'll major in

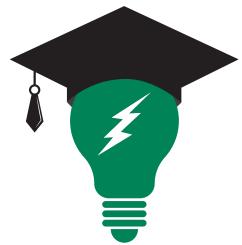


pre-engineering and dual minor in both physics and math, while competing in volleyball and track.

Midland's scholarship program is

funded through unclaimed patron-

We congratulate this year's scholarship recipients and all our wonderful area graduates!



# How electric utility regulations benefit rural lowans



ETHAN HOHENADEL Director of Regulatory Affairs for the Iowa Association of Electric Cooperatives

During the 2023 Iowa Legislative Session, proposals have been introduced with the intent to deregulate electric service territories in Iowa. Iowa's electric cooperatives are concerned about the negative economic impacts of deregulation for rural Iowans because we know firsthand how exclusive service territories provide stability. Exclusive service territories also provide consistency and reliability through a utility's obligation to serve its assigned service territory. I'd like to provide some background on how rural Iowans benefit from these regulations.

In 1976, the Iowa Legislature passed Senate File 1258 which created assigned electric service territories. The legislation's goal was "to encourage the development of coordinated statewide electric service at retail, to

eliminate or avoid unnecessary duplication of electric utility facilities, and to promote economical, efficient, and adequate electric service to the public."

Let's break this down. First, the Iowa Legislature desired a coordinated statewide retail electric service system ready to serve Iowans. This was accomplished with SF 1258 by ensuring that every square foot of Iowa had an electric utility obligated to provide electric service upon request. This means electricity is available to every Iowan no matter where they chose to live, work, vacation, or adventure.

Second, the Iowa Legislature wanted to eliminate or avoid unnecessary duplication of electric utility facilities. SF 1258 achieved this by assigning a single electric utility to serve within the assigned service territory. This means that only one set of substations, power lines, and transformers are installed to serve every home and business in a service territory. Imagine the cluttered landscape of several sets of equipment in your community if multiple utilities provided electric service.

Finally, the Iowa Legislature set out to promote economical, efficient, and adequate electric service to the public. SF 1258 promoted economic electric service by reducing potential expenses related to duplication of electric facilities. Additionally, the legislation promoted efficiency by reducing the electric facilities installed and by establishing service territories based upon existing facilities already installed.

Although the Iowa Legislature didn't set out to increase reliability by creating assigned service territories, SF 1258 accomplished that as well. According to a 2021 utility report published by the highly respected law firm Wilkinson Barker Knauer, LLP, "Deregulation may make power cheaper for some major electricity buyers like Big Tech, but it increases costs for the average consumer, all while sacrificing reliability. In fact, nine out of 10 states in the continental United States with the highest utility costs have fully restructured markets with retail choice. Deregulation proponents also claim that the approach is clean and green. In reality, these restructured models offer little incentive for the kind of large-scale investment in clean energy technology that we'll need to meet the demands of a changing climate."

Additionally, a recent investigation on electric deregulation by The New York Times concluded that on average, residents living in a deregulated market pay \$40 more per month for electricity.

For over 45 years, Iowa's assigned service territory laws have reinforced reliable and affordable electric utility service. Efforts to weaken or eliminate these laws will only harm rural Iowans.

# Snyder joins the Midland team



Midland Power recently welcomed a new employee to

**Cole Snyder** joined Midland Power in February as a 1,000 hour apprentice lineman and will be based in the Boone service center.

A Perry native, Snyder previously held positions with Alliant Energy and the City of Perry.

In his spare time, he likes watching sports and lifting weights.

Welcome, Cole!

# Disconnect moratorium ends April 1

PLEASE NOTE: the winter disconnect moratorium ends April 1, 2023. If your account(s) is past due and you have not made payment arrangements by March 31, you will be subject to disconnection of your electric service.

To avoid disconnection, you must pay your electric bill in full by April 1, or request a reasonable payment agreement for your past due account(s).

Call Midland Power at (800) 833-8876 if you have any questions.

# 2023 APPRECIATION

Powering Forward Together!



### MARK YOUR CALENDARS for our FREE Member Appreciation Events!

Bring your friends and family for a delicious meal and desserts, along with an evening of fun events, door prizes, and more!

#### **JUNE 20 - HUMBOLDT**

**Midland Power Office 1210 13th St. N., Humboldt** 

# **JUNE 27 - BOONE**

**CASE IH Building** 1827 217th Rd., Boone

#### **JUNE 22 - IOWA FALLS**

**Midland Power Service Center** 730 S. River St., Iowa Falls

#### **JUNE 29 - JEFFERSON**

**Clover Hall** 601 E. Lincoln Way, Jefferson

### **All events from 5:00 - 7:00 PM**

Join us immediately after the Jefferson event for our Annual Meeting!

#### CHARGED UP

from page 1

a variety of fuel sources, whether that's locally produced ethanol, traditional gasoline, or EVs. We're here to help our members separate fact from fiction and make the best choice for their lifestyle."

To help ensure Midland's employees are up to date on the latest EV developments, Beilke and his team have launched a series of internal education efforts. These kicked off recently with a visit to the Boone office from Ames Ford Lincoln who brought along a Ford F-150 Lightning. Employees had the chance to learn firsthand about the vehicle and its capabilities and limitations. Unsurprisingly, the employees expressed many of the same concerns voiced nationally.

According to a 2021 Pew Research Center report, consumers most frequently cite price and reliability as their two biggest hurdles preventing them from purchasing an electric vehicle. Locally, members often report the area's lack of charging infrastructure and vehicle limitations, such as driving range, towing capacity, and cold weather performance, as their biggest concerns. However, as auto manufacturers make advancements in battery technology, vehicle costs are expected to drop while performance improves.

"This is an industry that's literally changing every day," said Roger Hammen, Midland Power manager of energy services. "The technology is constantly changing, and we need to be ready. We know members are curious about electric vehicles and how they'll impact our cooperative."

#### IMPACT ON THE GRID

Nationally, the growth in electric vehicles poses a challenge for electric utilities. Traditional baseload generation resources, such as coal, nuclear, and natural gas plants are increasingly being replaced by more intermittent renewable resources, such as solar and wind energy. While these alternative resources may



Kirk Lemon of Ames Ford Lincoln explains the various features of the Ford F-150 Lighting EV to Midland Power employees during a recent visit.

have environmental benefits, they lack the needed around-the-clock reliability members depend on. This can become especially problematic during periods of high demand.

This December, unseasonably cold temperatures coupled with a lack of wind production caused Southwest Power Pool, the regional balancing authority that oversees the northern portion of Midland's service area, to issue an energy emergency alert. While blackouts were thankfully averted, the situation highlights the importance of smart energy policies that balance both traditional and renewable energy sources.

Unfortunately, widespread adoption of electric vehicles has the potential to exacerbate the situation.

While many of today's EVs require a charge rate in the 7-kilowatt range, some models go much higher, including the Ford Lightning which charges at up to 19.2 kW. By comparison, an electric clothes dryer or a home air conditioner use roughly 2.5 kW, while a residential heat pump or electric water heater may use 5-10 kW. However, unlike heat pumps or water heaters that use electricity periodically throughout

the day, often when the electric grid has an abundance of power, electric vehicles are frequently charged at the very time the electric grid is stretched thinnest.

Commuters returning home from work in the evening often plug in their vehicle before heading inside to turn on the lights, turn the thermostat up (or down in the summer), start dinner, or run a load of laundry. All this additional usage contributes to increased wholesale demand charges from Midland's power suppliers, costs that are ultimately reflected in the co-op's rates.

#### **POTENTIAL OPPORTUNITIES**

With the majority of current electric vehicle owners reporting they're very or somewhat likely to add a second electric vehicle in the future according to Pew Research, educating members about the best times of day to charge is critical.

On the flip side, electric vehicles also represent a tremendous opportunity for the cooperative. Members are increasingly modifying their charging habits by programming their vehicles or chargers to charge during off peak hours, such as late at night or during the day when solar energy is most abundant. This

additional load, when appropriately timed, has the potential to provide a new source of revenue for the co-op, helping to keep rates stable. Members also benefit from the convenience of charging at home while also seeing significant savings on their fuel bills.

"Over the coming months, we'll be creating additional resources for members interested in electric vehicles," Beilke said. "Just like we tell members to call us first when considering installing solar or putting in a new HVAC system, we hope members will turn to us when thinking about buying an EV. We're here to help."

To encourage members to adopt smart charging habits and help prepare for possible EV specific programs in the future, Midland offers members a rebate of up to \$500 on a level II charger. Members are also asked to notify the co-op when adding an electric vehicle to our lines. This data enables the co-op to better plan future system upgrades, helping ensure reliable service.

For more information and to register your EV, visit MidlandPower. coop/EV or call our energy service team at (800) 833-8876.



#### **Midland Power Cooperative Offices**

Monday-Friday: 7:30 a.m. - 4:00 p.m.

- 2005 S. Story Street, Boone, Iowa
- 1210 13th Street North, Humboldt, Iowa
- 1001 E. Lincoln Way, Jefferson, Iowa

#### Give Us a Call 24/7!

**L** Toll Free: 800.833.8876

Automated Pay-By-Phone 888.470.4623

#### Find Us Online!

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mpcrec@midlandpower.coc

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