

October 2019

# 100 Percent Public Power

Uniquely Nebraskan

## Celebrate Public Power Month

# Now you can ease your fear of falling while walking more naturally.

## The Perfect Walker II enables you to walk upright and avoid falls.

What did you tell your children the whole time they were growing up? "Stand up straight, don't slouch!" Well, now that you are one of the countless Americans who use walkers and rollators for safety and mobility, why aren't you heeding your own advice? Until now, using these products meant shuffling along, hunched over, eyes down, with your weight centered on your hands and wrists. Instead of promoting safety, these products lead to bad posture, an unnatural gait and a risk of additional injury from not seeing where you are going. Now, there's a better way.

The Perfect Walker II has solved the uncomfortable bent over posture that has plagued users of traditional walkers and rollators. It enables you to walk safely and comfortably in a natural, upright position. It features innovative forearm support cuffs that support your weight with your arms and shoulders, keeping you standing in a natural way. It is height-adjustable





for users up to 6 feet tall. No more leaning forward, stretching, slouching or crouching- no worrying about toppling over or losing your balance. Best of all, when you are walking, you are looking forward, not down.





### Look forward to going more places more often!

Perfect Walker II folds up for transit or storage with a dual-folding design, making it compact and easy-to-handle, weighing only 18 pounds. It's extremely simple and convenient to take and use just about anywhere. It features an advanced braking system, a secure locking mechanism and a stable wheel base. The rear "walking space" of the Perfect Walker II is wider than traditional rollators, giving you a greater range of motion and a natural, comfortable walk.

So take your own advice, and stop slouching. Call today to find out how you can get a Perfect Walker II. You... and your children, will be glad you did. Call Now!



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"The Rural Voice of Nebraska"

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#### **Celebrating Public Power in Nebraska**

October is Public Power Month and honors the nation's more than 2,000 not-for-profit, community-owned electric utilities, like those that serve your homes, ranches and businesses. Nebraska is the only one in the nation that is totally served by public power.



What's New With Electric Vehicles?

Electric vehicles (EVs) are on the rise in the United States, and they're providing a new driving experience for many Americans. Maria Kanevsky explains the benefits of electric vehicles.



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#### On the cover

Nebraska has it's heritage to celebrate when it comes to public power. In 1936 Nebraska Senator George Norris of McCook, Neb., worked to get the Rural Electrification Act passed. See the related article on Page 6.

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## The Uniquely Nebraskan public power system

id you notice the front cover of this issue of Rural Electric Nebraskan? It's okay, I will wait while you turn back and sneak a look.

Pretty nifty, right?

That brightly colored cover something that celebrates is uniquely Nebraska, the fact that Nebraskan's are served by public power. "Now wait a minute," you may be saying, "we have public power districts, and cities and electric cooperatives here in Nebraska." That's true, but they can all be generally called public power. Why? Every single one of those entities is governed by citizens elected to represent the people that the public power district, or the city, or the cooperative serves with power.

You have probably studied the fascinating history that led to Nebraska's unique electric service industry, so I will not go into that in this column. So, I won't write about the FDR plan to provide electricity through the Rural Electrification Act. I won't discuss George Norris, a U.S. Senator and Congressman

Nebraska, from who believed government should serve the needs of the ordinary citizens and electricity was **Public Power** a right of the people, promoting the Rural Electrification Administration, the Tennessee Valley Authority and public power in Nebraska. But I do want to chat about why it's unique.

So how is power distributed and sold? It's very common in the U.S. to have a state divide itself into "service territories." Α company or government is designated to serve



by Kim Christiansen **NREA General Manager** 

those citizens and businesses within the service territories with electricity. There is nothing wrong with the Investor Owned Utility (IOU) model, but these are governed by boards that are selected only by the other investors, normally a relatively small group. The goal is to make and return money to the other

investors.

100%

Uniquely

Nebraskan

is Nebraska not served bv any IOUs.

Nebraska

has. like other states, set up electric service territories across the state. These are served either by а cooperative, a municipality or а public power district.

A cooperative is a not-forprofit group that joins together to provide some sort of product or services. Electric cooperatives across the nation provide electric service to those that live in their service territory. Cooperatives normally allow all of those they serve (who are called members) to vote who will represent them on the governing board. Often, these elections are held at an annual meeting that all members may attend. Only members can serve on the board. A cooperative is an excellent example of representative democracy.

In many cities and villages, the citizens are served by the municipality. As you are aware, any citizen who has registered to vote can participate in city elections. Decisions on electric services and rates are governed by the governing board of the city. Another form of representative democracy.

Finally, the public power district. Nebraska has 37 public power districts, most in rural areas. Like other entities, they serve all those who need service in their designated service area. Public power districts, like cities and cooperatives, also do not operate to make a "profit" on Far electric services. more important, the public power district is also governed by a board of directors that are elected by the registered voters in general elections. Again, those elected board members serve those who elect them.

All three types are not-for-profit. All three are governed by your friends and neighbors who have been elected to the board of directors by you.

So, if you are sitting under a lamp reading this in Nebraska, you are more than likely receiving electricity from the uniquely Nebraskan public power system.

That's why our cover, and all our member public power districts and cooperatives. celebrating are Nebraska's claim, this October, to Nebraska being 100 percent Public Power -- Uniquely Nebraskan.

Introducing the future of personal transportation.

## It's not a Wheelchair... It's not a Power Chair...



The Zinger folds to a mere 10 inches

Also available in Black

More and more Americans are reaching the age where mobility is an everyday concern. Whether from an injury or from the aches and pains that come from getting older– getting around isn't as easy as it used to be. You may have tried a power chair or a scooter. The *Zinger* is NOT a power chair or a scooter! The *Zinger* is quick and nimble, yet it is not prone to tipping like many scooters. Best of all, it weighs only 47.2 pounds and folds and unfolds with ease. You can take it almost anywhere, providing you with independence and freedom.

ZINGER

Years of work by innovative engineers have resulted in a personal electric vehicle that's truly unique. They created a battery that provides powerful energy at a fraction of the weight of most batteries. The *Zinger* features two steering levers, one on either side of the seat. The user pushes both levers down to go forward, pulls them both up to brake, and pushes one while pulling the other to turn to either side. This enables great mobility, the ability to turn on a dime and to pull right up to tables or desks. The controls

## It's a Zinger Chair!

ZINGER

are right on the steering lever so it's simple to operate and its exclusive footrest swings out of the way when you stand up or sit down. With its rugged yet lightweight aluminum frame, the *Zinger* is sturdy and durable yet convenient and comfortable! What's more, it easily folds up for storage in a car seat or trunk– you can even gate-check it at the airport like a stroller. Think about it, you can take your *Zinger* almost anywhere, so you don't have to let mobility issues rule your life. It folds in seconds without tools and is safe and reliable. It holds up to 275 pounds, and it goes up to 6 mph and operates for up to 8 hours on a single charge.

Why spend another day letting mobility issues hamper your independence and quality of life?



*Just think of the places you can go:* • Shopping • Air Travel • Bus Tours • Restaurants- ride right up to the table! • Around town or just around your house

The Zinger Chair is a personal electric vehicle and is not a medical device nor a wheelchair, and has not been submitted to the FDA for review or clearance. Zinger is not intended for medical purposes to provide mobility to persons restricted to a sitting position. It is not covered by Medicare nor Medicaid. © 2019 firstSTREET for Boomers and Beyond, Inc.

# CELEBRATING PUBLIC POWER INNEBRASKA #workingfornebraska

ould you imagine going an entire day without the use of electricity? Have you ever tried it? In the span of about 100 years we have seen electricity evolve from a big city luxury to a nationwide necessity. It keeps us safe and comfortable, and it connects us to our friends and family.

We take electricity for granted in Nebraska and the entire United States for that matter. The folks who can remember what it was like before their family had electricity are becoming fewer every year. It is easy to forget how dependent we have become on electricity in our everyday lives. We flip the switch and automatically expect our homes and offices to be filled with light.

It doesn't hurt to be reminded occasionally about the importance of electricity, as well as the contributions it makes to our towns, our state and the nation.

We encourage our readers to take part in celebrating Public Power Month.

Public Power Month honors the nation's more than 2,000 not-for-profit, community-owned electric utilities, like those that serve your homes, ranches and businesses.

Public power serves the interests of the community. The not-for-profit rates hold down household and business costs, and Nebraska has some of the lowest electric rates in the country. Lower electricity rates attract and keep businesses that provide jobs for our citizens. They are also good for our household budgets.

When it comes to service, you know your electric provider is just down the street or a phone call away if you have problems. And you know their track record of keeping the power on and restoring it immediately in the case of weather-related outages, such as blizzards and tornadoes.

Nebraskans have several reasons to celebrate Public Power. Our state is the only one in the nation that is Linemen from Niobrara Valley EMC work on a powerline.



totally served by public power. Other states have investorowned utilities that are in the business to make money. Electric utilities in Nebraska are in business to provide affordable, reliable and safe electricity.

Nebraska has it's heritage to celebrate when it comes to public power. In 1936 Nebraska Senator George Norris worked to get the Rural Electrification Act passed. He believed that public power represented a way to ensure that every citizen was provided with reliable service at a reasonable price.

Nebraska's rural electric utilities are dedicated to energy efficiency, too. Public Power Month is a good time to look at your local electric utility's low- or no-cost programs designed to help reduce energy consumption and save you money. The programs help consumers gain control over their energy use.

In Nebraska we create electricity from a number of sources, including coal, nuclear, hydro-power and wind. The energy efficiency programs offered by local electric utilities help reduce the need for additional power plants to be built in the future.

Take a minute to tell your electric utility "thank you" for working to keep rates low and the power on.



## Nebraska is



Best state for power grid reliability 2018 Source: usnews.com

Every state in the U.S. has a public power utility, but Nebraska is the only state where 100 percent are served by a community-owned utility.

#### By Rick Nelson, general manager of Custer Public Power District

## The benefits of public power

s General Manager of Custer Public Power District, I know some of the history of public power in Nebraska. Being so close to the subject, I catch myself thinking that everyone knows as much as they ought to about Nebraska's strong public power advantages and heritage. For some readers it may be familiar territory. For others, it may be new information.

First, "public power" are electric utilities that are owned by the public. They operate on a not-forprofit basis as opposed to profit-making utility companies.

In the early days of electricity in Nebraska, private, shareholderowned, for-profit electric companies served mainly towns and urban areas. The Nebraska Legislature — and more specifically Senator George Norris — realized that the private companies were not going to service rural customers because they could not make a profit.

Norris developed state laws that gave people the ability to form public power districts and rural electric cooperatives. They gave public power the right of eminent domain to ensure that Nebraska would be a completely public power state without private electric companies making a profit on electricity, since electricity had become a necessity for modern life.

Nebraska became and still is the only state in which 100 percent of the customers are served by electric utilities that they own. Not one penny of dividends is tacked onto electric bills and sent to investors.

Nebraska Public Power District (NPPD) was formed to serve retail operations and to be a wholesale supplier to some rural public power districts and cooperatives. Some of these rural electric utilities are actually served by a generation and transmission cooperative directly. The Nebraska Generation and Transmission (NEG&T) cooperative then purchases wholesale power from NPPD and passes it through to its members.

Although we are three separate entities, governed by separate boards of directors. NPPD supplies wholesale power to Custer. We buy it and then distribute it to some of you. This concept is the same for other public power districts and cooperatives in Nebraska served by NPPD.

A few public power districts and cooperatives in western Nebraska receive their wholesale power from Tri-State Generation and Transmission Cooperative, in much the same way as we do from NPPD. Tri-State is a separate entity owned by the local systems that buy power from it.

Being in this network gives us a certain measure of our own "energy independence." When we need to buy power, we are not at the mercy of out-of-state utility holding companies whose focus is maximizing profits.

This unique distinction of being the only state in the union which is 100 percent public power is one of the major reasons why Nebraska ranked 10th in the nation for having the lowest electric rates.

There's one thing that I like about all of this. It's a story that proves once again that in rural Nebraska, we know how to take care of ourselves, take care of each other, take care of our communities, and take care of business.

It's a story worth passing on to the next generation.



## Is your home assistant draining your energy bill?

H ave you ever wanted to turn off the lights, listen to the news or order food by simply using your voice? That is the power a home assistant can provide. These handy products have made their way into many homes across the country since the first smart speaker became available in late 2014. By the end of 2018, there were 66.4 million users of smart home assistants or smart home speakers in the U.S.

One in four Americans now own a smart speaker, and 40 percent of those people also have more than one smart speaker in their homes. The most popular smart speaker is the Amazon Echo, although Google Home products are selling at a rapid rate and even taking over some of the market share from Amazon. Other brands of smart speakers include Apple's HomePod, the Sonos One and the JBL Link 10, although none of them are nearly as popular as the Amazon or Google products.

Smart speakers have become the next big thing to hit the residential market. Google Home starts at about \$129, and the Amazon Echo starts at about \$180. However, there are smaller, more basic versions that start at \$25 for the Amazon Echo Dot, and \$49 for the Google Home Mini. These smart speakers can truly act as assistants, whether by helping you set reminders, establishing routine commands or informing you of today's top stories. They include additional functions, like helping you order products online, playing music – they can even tell you a joke!

The **Echo Dot** is the best easy entryway into the Alexa ecosystem; if you want an allpurpose Alexa-powered speaker, the regular **Echo** is a good compromise. If you're looking for a high-quality music speaker, the **Google Home Max** is your best bet.

As smart speakers become more prevalent, you may be wondering if these products impact your energy bills. Tests have been conducted to see how much power a smart speaker uses, including different modes of use, like when the assistant is on standby mode or listening to a command. Moderate-level actions like playing music at full volume have also been tested.

The Amazon Echo speaker uses three watts of electricity while on standby, and if it were left on standby mode for one year, the total cost would only be about \$3.15. While moderately active (like telling a joke or playing music at a medium volume), the Amazon Echo uses four watts. At the highest power use (like playing music at full volume), the Amazon Echo still only uses 6.6 watts, which is just slightly more than double its standby use, and if used consistently at this level, it would cost \$6.93 for the year. For comparison, the Google Home uses slightly less energy than the Amazon Echo at two watts while in standby mode, saving you about \$1 a year in total energy costs.

As you can see, the costs to use smart speakers are minimal, and the difference in prices between available products and their abilities are still relatively small. There are plenty of reasons to buy a smart speaker, and the additional cost to your energy bill should not stop you from getting one.





A lone whooping crane feeds in a cornfield with sandhill cranes near North Platte in March 2018. The crane had stayed in the North Platte area for nearly four weeks. Photograph provided by Nebraskaland Magazine / NGPC

# Public encouraged to report whooping crane sightings

he entire population of whooping cranes in the Central Flyway is expected to migrate through Nebraska over the next several weeks. The Nebraska Game and Parks Commission encourages the public to report whooping crane sightings.

Information on crane sightings is used to positively affect whooping crane conservation and recovery efforts.

Report any sightings to Game and Parks at 402-471-0641 or online at http://outdoornebraska.gov/whoopingcrane/.

Observers of cranes are encouraged to record number of birds, location, type of activity, and, if it can be determined, the number of adults and juveniles. Sandhill crane, American white pelican, great blue heron, trumpeter swan and snow goose are species that occasionally are mistaken for whooping cranes. Whooping cranes are approximately 5 feet tall and fly with their neck outstretched. Adults are all white with the exception of black wing tips and reddish-black facial pattern.

Whooping cranes that migrate through the Central Flyway often are referred to as the Aransas-Wood Buffalo population or flock. Cranes from this population migrate from wintering sites at and around Aransas National Wildlife Refuge in Texas to breeding sites at and around Wood Buffalo National Park in Alberta. In the early to mid-20th century, this population was reduced to fewer than 20 birds and was perilously close to extinction.

As a result of legal protection, such as the Endangered Species Act and the Nebraska Nongame and Endangered Species Conservation Act, as well as conservation efforts, whooping crane numbers have increased slowly. The Aransas-Wood Buffalo flock was estimated to number approximately 505 individuals during the winter of 2017-2018. During the summer of 2019, 37 whooping crane chicks reportedly were fledged.

Game and Parks reminds observers that whooping cranes should not be approached. Harassing whooping cranes may put them at risk and it also is a violation of state and federal law.

## Use caution to avoid collisions with deer

Deer are more active this time of the fall. Crops are being harvested and deer breeding season is in full swing. The Nebraska Game and Parks Commission has suggestions to help drivers avoid deer-vehicle accidents and lessen the risk of injury or vehicle damage.

• During the breeding season, bucks become more active searching for does with which to breed. Bucks are bolder, less wary and more susceptible to collisions with vehicles. Deer movement peaks each day near dawn and dusk.

• Anticipate the possibility of a deer on the road and plan how to avoid a collision. Be prepared to stop suddenly, but braking too sharply or swerving may cause you to lose

control and roll your vehicle. • Always wear

• Always wea your seat belt.

• When driving near shelterbelts, woodlots or creeks, especially during evening or early morning, slow down and watch for deer.

• When you spot a deer, assume there will be others in the same area.

• Deer often seem to be disoriented or confused by headlights. Some react by freezing in the light, some dart into the path of the vehicle and others bolt away. Honk your horn and flash your headlights to frighten deer away. If there is other traffic on the road, activate your emergency flashers and tap your brakes to alert other drivers to the potential danger.

• If a deer is struck, the driver may take possession of it but must contact a Game and Parks conservation officer within 24 hours to obtain a salvage tag.

Source: Nebraska Game & Parks Commission

## "To you, it's the **perfect lift chair.** To me, it's the **best sleep chair** I've ever had."

— J. Fitzgerald, VA



You can't always lie down in bed and sleep. Heartburn, cardiac problems, hip or back aches – there are dozen of reasons that it's too much. Those are the nights you'd give anything for a comfortable chair to sleep in: one that reclines to exactly the right degree, raises feet and legs just where you want them, supports your head and shoulders properly, and <u>operates easily</u>.

Our **Perfect Sleep Chair**<sup>®</sup> does all that and more. More than a chair or recliner, it's designed to provide total comfort. **Choose your preferred heat and massage settings, for hours of soothing relaxation.** Reading or watching TV? Our chair's recline technology allows you to pause the chair in an infinite number of settings. And best of all, it features a powerful lift mechanism that tilts the entire chair forward, making it easy to stand. You'll love the other benefits, too. It helps with correct spinal alignment and promotes back pressure relief, to prevent back and muscle pain. The overstuffed, oversized biscuit style back and unique seat design will cradle you in comfort. Generously filled, wide armrests provide enhanced arm support when sitting or reclining. **It even has a battery backup in case of a power outage.** 

White glove delivery included in shipping charge. Professionals will deliver the chair to the exact spot in your home where you want it, unpack it, inspect it, test it, position it, and even carry the packaging away! You get your choice of stain and water repellent synthetic DuraLux with the classic leather look or plush microfiber in a variety of colors to fit any decor. **Call now!** 

## The Perfect Sleep Chair<sup>®</sup> 1-888-808-7954

Please mention code 111098 when ordering.





Because each Perfect Sleep Chair is a custom-made bedding product, we can only accept returns on chairs that are damaged or defective. © 2019 firstSTREET for Boomers and Beyond, Inc.

## Protect yourself against an electric utility scam

C ustomers have reported receiving calls from scammers posing as representatives of Nebraska's rural electric utilities, demanding payment.

"Unfortunately, this is the type of scam that impacts many communities every year." said NPPD Retail General Manager Tim Arlt. "Anyone who receives such a call should not let their guard down and should contact our team and law enforcement immediately. Protecting our customers is a top priority."

The recent scam has targeted customers in multiple communities including Aurora, McCook, York, Geneva, Pawnee City and Scottsbluff, but residents across Nebraska should be aware of the scam.

These predatory individuals state the bill must be paid immediately or the power will be shut off and will recommend several methods of payment. Sometimes the scammer's caller-identification is falsified so it appears to originate from the utility company, a practice known as 'spoofing'.



To help customers be wary of such scams, follow these tips and suggestions:

• Your electric utility, as a business practice, does not call to ask customers for a credit card number.

• Your electric utility does not demand payment with a pre-paid card.

• Any customer receiving such a call should not attempt to make

payment over the phone using a credit or debit card.

• Write down the call back number or consider asking where the caller is located.

• Contact law enforcement.

• If served electrically by a rural public power district or municipality, customers should contact that organization before providing any type of payment.



Rural Electric Nebraskan

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### by Maria Kanevsky

# What's new with Electric Vehicles?



E lectric vehicles (EVs) are on the rise in the United States, and they're providing a new driving experience for many Americans. The benefits are clear from the expansion of the EV market, including less air pollution in congested areas, less carbon emissions, decreased maintenance costs and less oil consumption.

EV sales have climbed in the U.S. since they first came onto the market. In 2011, there were only around 17,000 EVs sold, compared to the 361,000 EVs sold in 2018. Cumulatively since 2011, nearly 1.2 million EVs have been sold, and that number continues to grow.

Tesla has dominated the EV market in the U.S., making up about more than half of the total EV sales in 2018. The first luxury EV was manufactured by Tesla, setting the stage for style and performance. Although Tesla dominates in sales, there are many other popular models available, and the competitiveness among them is increasing. Back in 2011, there were only two options: the Nissan Leaf EV and the Chevy Volt Plug-In EV. But in 2018, there

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were eight models that made up 80 percent of total plug-in EV sales. This includes many major manufacturers, like General Motors, Ford, Toyota and BMW.

One reason that the EV market has been doing so well is that the total cost of ownership of newer EV models is becoming much closer to



that of gas-powered vehicles. Since maintenance costs for EVs are lower than gas-powered vehicles and the price to charge an EV is cheaper than filling a full tank of gas, people are spending less money on EVs over the course of the car's lifetime than they would on gas-powered vehicles.

A lot of the growth of this market sector is concentrated in a few states, mainly in California, the West Coast (Washington and Oregon) and the Northeast (New York, New Jersey, Massachusetts, Maryland and Pennsylvania). California leads the way in EV sales, charging infrastructure and state policies. which all contribute to the fact that California makes up about half of the country's EV market.

With the growth of EV sales comes a growing need to charge those vehicles. There are three main types of charging levels: Level 1, Level 2 and DC Fast charging. Level 1 and

DC Fast chargers can fully charge an EV in 15 to 45 minutes, ensuring the EV has enough juice to last the whole journey. Photograph by John Cameron In 2018, Tesla dominated the EV market in the U.S., making up about more than half of the total EV sales.

Level 2 are mainly for residential charging, while DC Fast chargers are made for a "gas station" experience.

For charging outside of the home, DC Fast chargers can fully charge an EV in 15 to 45 minutes. For longer drives and road trips, these chargers ensure that your car has enough juice to last the whole journey. However, DC Fast charging infrastructure is not growing as quickly as EV sales are, which presents an issue for drivers that do not live conveniently close to them.

There is a strong expectation for EV sales to continue to grow as they have been over the last eight years. Although the charging infrastructure is not evenly distributed throughout the country, there will be a strong need to continue developing it to reach a wider audience.

Many public power districts and electric cooperatives are positioned to start developing charging infrastructure to address this need. The growth of the EV market and charging infrastructure across the U.S. will be the future of our nation's roadways.

# Incentives for electric vehicles, charging stations now available

One of the obstacles facing consumers about EVs is the upfront cost for the vehicle and installing charging stations. As part of an incentive program, Nebraska Public Power District, in partnership with its wholesale utility customers and the Nebraska Environmental Trust (NET) and the Nebraska Community Energy Alliance (NCEA), has introduced three programs which help to reduce the purchase price of an EV.

"We have been fortunate to receive grant money from NET through a partnership with the NCEA which is very much appreciated," said NPPD President and CEO Pat Pope. "The grant money will be an incentive to those wanting an electric vehicle and

are faced with upfront costs and installing charging stations at their residence. NPPD will also be working with auto dealers and home builders to promote these incentives."

"The Nebraska Environmental Trust is excited to increase the number of electric vehicles in use across Nebraska," said Executive Director of the Nebraska Environmental Trust Mark Brohman. "Nebraska Public Power District can use the charging information shared from these smart home charging stations to find ways the utility can benefit from electrified transportation."

The largest available incentive is for EV and a ChargePoint home charging station in the amount of \$4,500, with \$4,000 going towards the purchase of



\$4,000 going towards the purchase of a vehicle. Another \$500 would be available for the charging station installation at a single or multi-family residential location with internet wireless connectivity.

Two other incentives are also available. One is for a ChargePoint home charging station installation of \$500 and a \$100 incentive is available for the pre-wiring for the installation of a residential EV charging station in the future.

"The Nebraska Community Energy Alliance (NCEA) must prove for the Nebraska Environmental Trust, which grants public funds, the economic and environmental benefits of electrified transportation," said NCEA Director Anne McCollister. "As Nebraska Public Power District offers Trust-funded rebates this year for electric vehicles and home charging stations to help populate its utility study, we expect to see the same cost savings and emissions reductions in the second year we found in the first year of studying residential home charging."

Details of all three incentive programs can be found at https://www.nppd.com/save-money/incentives-programs#electric-vehicle. The incentives are available to NPPD retail customers and customers of its wholesale utilities.

## Is a heat pump right for my home?

#### by Pat Keegan

**Q**: My cousin just installed a heat pump, so now she uses fan units placed on the walls instead of her baseboard heaters. My neighbors just got a heat pump too, but they replaced their furnace and air conditioner, so it blows through the old furnace vents. Could one of these options work for my home as well?

A : The short answer is yes. The two most common types of heat pumps, which you've just described, are often good options.

It sounds like your cousin replaced her electric baseboard heaters with a ductless mini-split heat pump. This is a good solution because older baseboard heaters are typically inefficient. The mini-split system has a compressor outside that is connected with refrigerant lines to the blowers inside. A ductless system can serve up to four zones, so it can heat a small home or can be used in combination with another heating system in a larger home. The ductless mini-split system is a great option for a home that does not have a duct system, or if the existing duct system is inefficient or poorly designed.

Your neighbors most likely replaced their central heating and air conditioning (HVAC) system with a central system air-source heat pump. This system's compressor is also located outside, but in this case, it's connected to the home's duct system to distribute cold or warm air through the existing vents. The central system heat pump can be an efficient option if your existing duct system is in good shape.

A less common type of heat pump is a ground-source, or geothermal, system that taps into heat that's naturally underground year-round. Geothermal systems are typically an expensive investment, but they are quite efficient.

Heat pumps are typically much more efficient than electric resistance systems and can be a solid solution in a wide variety of circumstances. They can be the right choice in a manufactured home, a construction addition or as a replacement for a broken or inefficient HVAC system. They're also becoming more popular for central heating in new construction.



An air-source heat pump compressor located outside the house can distribute hot and cold air through your existing duct system. Photograph by Peter Stevens

Here's how heat pumps work: During winter, they pull warmth from the outside air into the home; during summer, the process is reversed and warmth from inside the home is exhausted outside. It may seem odd that warmth can be found in outdoor winter air, but heat pumps are amazing inventions. They've become much more efficient in recent years to the point that they can be effective year-round in most cold winter climates.

The efficiency of a heat pump is measured in two ways: The HSPF (Heating Season Performance Factor) rating measures heating efficiency, and the SEER (Seasonal Energy Efficiency Ratio) rating measures cooling efficiency. The minimum ratings for a heat pump are HSPF 8.2 and SEER 14. Heat pumps with the EnergyStar rating are significantly more efficient than the minimum standard.

Here's how to know if you should consider a heat pump for your home:

**1. Want to save money?** If you are currently heating your home with electric resistance or propane or heating oil, and you seal air leaks and install additional insulation, installing an efficient heat pump could reduce your heating costs by up to 75 percent. And if you are currently cooling your home with an old A/C system or window A/C units, you could also cut your cooling costs.

2. Want heating and cooling flexibility? A ductless mini-split heat pump can serve up to 4 individual zones or rooms, and each room's temperature can be controlled separately.

**3. Want safer heat?** Heat pumps eliminate the need to burn fuels inside your home and exhaust combustion gases. There's no risk of carbon monoxide or gas leaks that can come from flaws in a system that runs on natural gas, propane, fuel oil or wood.

Before you consider installing any new heating and cooling system for your home, I strongly suggest you conduct an energy audit. Your rural electric utility may provide energy audits or be able to recommend a local professional.

As with any major home improvements or installations, be sure to get a few quotes and references before committing or making any payments.

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## Have you considered running for public office?

To assist in the critical task of preparing future political leaders, the NREA board of directors will host a candidate training school on the nuts and bolts of running for political office. Attend the NREA Candidate Training School and learn what it takes to wage an effective and winning campaign.

Topics include: Effective Fundraising Message Development Campaign Budgeting Campaign Law Media Relations The NREA Candidate Training School will be November 7th in Lexington, November 8th in Lincoln, and November 15th in Battle Creek.

Registration Information: 402/475-4988

# Calendar of Events OCTOBER

## NORTHWEST

**October 4,** 2nd Annual Harvest Fair and Market at The Pumpkin Patch at BE Farm, Bayard, Neb. Come on out and enjoy a day of pumpkin picking, painting and craft vendor shopping! Join artist Kelly Bhenke as she guides you through an afternoon of fun painting, perfect for anyone at any skill level.

## NORTHEAST

QUESTIONS? CALL (800)348-9033 EXT. 7181

**October 5,** The Country Market Days, Pilger, Neb. Stroll the scenic grounds overlooking Elkhorn Valley while enjoying home-baked goods with a cup of coffee or a delicious lunch. Muse around fabulous vintage, rustic, repurposed, junk-fabulous, and handcrafted items with a wee smidgen flea hopping madness.

## **SOUTHEAST**

**October 4-6,** Great Pumpkin Festival, Crete, Neb. From the pumpkin carving demo to carnival games, a food court to the Great Pumpkin Giveaway, it will be a day full of entertainment, food, games, and fun for the whole family.

**October 13,** 23rd Annual Schoolhouse Fiddling Bee, The Old Avoca Schoolhouse, Avoca, Neb. In the Open Division, fiddlers will play a hoedown, a waltz, and a tune of choice. For adventurous fiddlers there will also be a Twin Fiddler's Contest (two fiddlers playing melody and harmony) and a Fee-Fi-Faux Fiddler's Contest (fiddle tunes played on any acoustic musical instrument other than a fiddle).

## SOUTH CENTRAL

**October 19-20,** Nebraska & National Hand Cornhusking Contests, Hecox Farms, Gothenburg, Neb. Competitors from Nebraska will compete in age divisions on Saturday and pickers from nine states will compete on Sunday. This also includes a large craft and food vendor fair, antique machinery displays and demonstrations, kids activities and lots of family fun.



NORTHWEST SANDHILLS

This calendar is published as a service to readers and the communities served by Nebraska's public power districts and electric cooperatives. Rural Electric Nebraskan publishes events free of charge as space allows, giving preference to free community festival and events in and around areas served by subscribing membersystems. We strive for accuracy, but please note that events, dates and times may change without notice.

To add events to Calendar, please email info to wprice@nrea.org or mail your info to: Calendar, Rural Electric Nebraskan, PO Box 82048, Lincoln NE 68501. Please submit info two months before the date of the event.





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## **Five Tips for a Tasty Tailgate Treat**

Most sports fans agree one of the best parts of game day is the tailgate. Whether you're heading to the game to take part in the action or tuning in on the big screen, you can light up the scoreboard this season with these tips for a fun, easy and tasty tailgate.

**Start early.** There's likely no easier way to send a tailgate spiraling out of control than to get a late start, which puts the party in a rush ahead of game time. Prepare early, and if you're heading to the stadium, leave yourself plenty of time to find the ultimate parking spot, light the grill and enjoy the atmosphere.

**Keep it simple.** A true tailgate experience starts with flavorful foods fit for a crowd, which calls for readyto-go ingredients like Eckrich Smoked Sausage, crafted with just the right blend of spices for a rich, savory and smoky taste. Because it's pre-cooked, just heat it up and pair with other simple ingredients, such as a hoagie bun and some peppers for an easy Grilled Smoked Sausage and Pepper Hoagies.

Share the responsibility. Preparing shouldn't fall on one person's shoulders. Instead, ask each attendee to bring something useful for the entire group, such as plasticware, trash bags, napkins, cups, drinks and games.

**Make it customizable.** Especially if you're bringing a large group, creating a spread that allows for personalization can help ensure everyone leaves happy. These Deluxe Nacho Dogs call for an abundance of topping options, giving guests full freedom to concoct their own creations, and they pair perfectly with Nathan's Famous Beef Franks – made with 100 percent premium beef, no artificial flavors or colors and no

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### **Grilled Smoked Sausage & Pepper Hoagies**

- 1 package Eckrich Smoked Sausage
- 1 red or green bell pepper, halved and seeded
- 4 slices (1/2-inch thick) large red onion
- 1/4 cup bottled hickory or spicy barbecue sauce
  - 4 hoagie rolls or 8-inch French bread rolls, split

Heat grill to medium-high heat and oil cooking grates. Cut each sausage link in half crosswise.

Grill sausage, peppers and onions,

#### fillers or by-products.

**Ensure an easy cleanup.** When the tailgate is winding down and the game is about to start, it's almost inevitable there'll be a rush to pack up and head to the stadium (or the couch). Make things simpler and covered, 5 minutes. Turn; continue grilling, covered, 5 minutes, or until sausage is heated through and vegetables are crisp-tender.

Brush barbecue sauce over both sides of sausage and vegetables. Arrange rolls, cut-sides down, around edges of grill. Continue grilling, covered, 2 minutes, or until rolls are lightly toasted. Cut bell peppers into strips; separate onion slices into rings.

Serve sausage and vegetables in rolls.

quicker by using disposable plasticware, plates and cups, and strategically placing trash bags in easily visible areas for everyone to clean up as the party continues, rather than scrambling to pick everything up at once.

#### **Reader Submitted Recipes**



### **Deluxe Nacho Dogs**

- 1 head lettuce
- 1 tomato
- 1 red onion
- 2 jalapeno peppers chives
- 1 package (8 hot dogs) Nathan's Famous Skinless Beef Franks cheese sauce
- 1 package hot dog buns sour cream

Heat grill to medium-high heat.

Wash and dry lettuce, tomato, red onion, jalapeno peppers and chives. Chop lettuce. Dice tomato and red onion. Remove jalapeno stems then slice. Chop chives.

Grill hot dogs 4 minutes, turning once halfway to warm through.

Heat cheese sauce according to package directions.

Personalize hot dogs with desired toppings. Spoon cheese sauce over entire dog then layer lettuce, tomatoes, onions and jalapenos. Add sour cream and garnish with chives.

Tip: To add heat, slice jalapenos and fry in skillet over medium heat with olive oil, salt and pepper. Cook until slices begin to blacken.

For more tailgating inspiration and recipe ideas, visit eckrich.com and nathansfamous.com.

#### October Soup

- 1 lb. sausage
- 2 onions chopped small
- 2 cups grated carrots
- 4 cups apples chopped chunky
- 2 cups potatoes chopped

#### (optional)

- 2 cups chicken broth
- 2 cans pinto beans
- 3/4 teaspoon ground thyme salt and pepper to taste

Brown sausage with onion in skillet. In large pot mix chicken broth, potatoes, carrots, apples, beans and the sausage/onion mixture after it's cooked and drained. Add seasoning, simmer for at least 30 minutes till the vegetables are tender, and to blend flavors. Serve with crackers or rolls. The way the apples and sausage complement each other really makes this a delicious soup.

Sally Silhasek, Alliance, Nebraska

#### **Cat Litter Casserole**

- 1 lb. hamburger
- 1 cup shredded cheddar cheese
- 1 cup Bisquick
- 3 3/4 cup water
  - 2 cups long-grain rice
  - 2 teaspoons salt
  - 2 tablespoons margarine

Mix together hamburger, Bisquick and cheese. Mold this into various sized mounds/dumps. Place apart on ungreased baking sheet. Bake 20 – 25 minutes at 350 degrees until brown, firm and crusty. Put water, rice, salt and margarine in large pan. Cook till boil, stir slightly, cover and let set for 12 to 14 minutes. In large cake pan, place rice in bottom and place mounds/dumps around like a cat was there. Use a new pooper scooper to serve. This is a fun recipe! Gets a reaction everytime.

Maryjo Vitamvas, Bancroft, Nebraska

#### Melt in Your Mouth Pumpkin Bread

#### 1 1/4 cup oil

- 5 eggs
- 2 cups pumpkin
- 2 cups flour
- 2 cups sugar

- 2 small boxes coconut pie filling (not instant)
- 1 teaspoon salt
- 1 teaspoon baking soda
- 1 teaspoon cinnamon

Mix oil, eggs and pumpkin with mixer. Mix in remaining ingredients and stir well. Put in oiled loaf pans and bake at 325 degrees for 55 to 60 minutes.

Donna Siebrandt, Bancroft, Nebraska

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