

Obsessively, Relentlessly
**At Your
Service**

WIND ADVANTAGE

NEWS FOR LANDOWNERS FROM MIDAMERICAN ENERGY

FALL 2022

CREATING A SUSTAINABLE IOWA **TOGETHER**

While many of you – our partner landowners – are winding down your fall harvest operations, our wind-harvesting operations continue to ramp up.

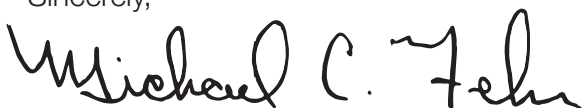
In 2021, our renewable generation sources powered 88.5% of our Iowa customers' energy needs, and that percentage will only keep going up. Not only does renewable energy help us keep our rates affordable – the 11th lowest in the nation – but it also creates jobs, attracts new business to Iowa and supports the local economies of our wind project host communities. That's not all – the wind projects you host on your land played a critical part in maintaining reliable power this summer for customers in Iowa and throughout the Midwest as temperatures soared and electric usage increased.

As we continue to plan more Iowa wind projects, we're also scaling up our use of solar technology, which you'll get to read more about in this issue. But, while the increased viability of solar technology in the Midwest has us very excited, wind remains the star player in our efforts to reach net-zero greenhouse gas emissions by 2050.

It's times like these that make it even more clear how many people benefit from our continued partnerships with you. You play a vital part in ensuring that people in Iowa and beyond have the energy they rely on to power their lives and their livelihoods. I am proud of the role we play for the people, businesses and communities we serve, and I hope you are, too.

Thank you as always for being our partners.

Sincerely,



MIKE FEHR

Senior Vice President, Renewable Energy
Generation and Compliance



MIDAMERICAN
ENERGY COMPANY®



KNOWLEDGE IS **POWER**

HOW MIDAMERICAN AND PARTNERS ARE **SUPPORTING LOCAL EDUCATION**

When we formed partnerships with you to build and maintain our wind projects on your land, we made a commitment not only to you, but to the communities in which you live, work and raise your families.

It's that commitment that led Ben Doyle, one of MidAmerican's wind site managers, to collaborate with some of our partners to help teachers in his local area to learn more about wind energy, experience being at the top of a wind turbine and share the facts about wind with their students.

"There's so much misinformation out there about wind," Ben said. "We have an opportunity to show the kids in our community exactly how wind energy works and give them the facts about the turbines they can see from their school's football field."

Since our safety equipment and protection systems are designed for adults, our safety practices don't allow for children to climb a 500-foot wind turbine. So, what's the next best way to give them the experience of being on top of one? Take their teacher.

"Teachers are force multipliers," Ben said. "If you give an experience to a teacher, they can take that back to their students year after year." Earlier this year, Ben – along with our partners at wind turbine manufacturer Vestas and economic development group Midwest Partnership – arranged for two teachers to tour and climb wind turbines at our Arbor Hill and Orient wind farms. Joy Cook, a sixth-grade science teacher from Stuart, and Chase Green, a high school science teacher from Greenfield, both participated in the climbs.

"It was a great time," Ben said. "The teachers were able to FaceTime with their students. The principal at one of the schools took his phone around to show all the classrooms the amazing view from the top of the turbine."

After the teachers' turbine climb, Ben and some wind technicians visited West Central Valley Middle School to give more students the opportunity to learn about wind energy.

"The number one question I get is, 'where does the power go?'" Ben said. "I hear all the time that the electricity we generate is going to California. The reality is our clean, renewable energy goes right here to customers in Iowa and the Midwest. If it all went to California, we wouldn't be attracting businesses from that very state to come set up operations here in Iowa."

As MidAmerican, Vestas and Midwest Partnership continue their collaboration to explore future educational opportunities, Ben hopes these efforts help show partner landowners and others living near our wind projects that MidAmerican is invested in the community.

"We want to be good neighbors – that's what we strive to be, 10,000%," Ben said. "If you tell me there's a problem with a turbine and it's not fixed, you're going to see me in the grocery store. I'm here to help."

MIDAMERICAN AND MORTENSEN DONATE TO ADAIR ELEMENTARY SCHOOL

Just before the school year started, MidAmerican and Mortensen, the contractor working on repowering construction at the Eclipse and Morning Light wind projects, donated funds and school supplies worth approximately \$2,400 to Adair-Casey Community Elementary School.

"The school supplies came in totes for each classroom, already divided by grade, which was perfect," Elizabeth Moreland of Adair-Casey Elementary, said. "We're seeing some more families struggling financially in these times. If students aren't able to come to school with everything they need, their teachers have supplies on-hand without it ever being a big deal."



IT'S A BIRD, IT'S A PLANE, IT'S A... **DRONE?**



WITH MIDAMERICAN'S FLEET OF DRONES, THE SKY'S THE LIMIT TO KEEPING SYSTEMS LIKE WIND TURBINES SAFE AND RELIABLE

MidAmerican's wind technicians and site managers are thoroughly trained to climb up wind turbines to perform maintenance inspections. Some of our turbines even have lift systems to allow technicians to ride up and down the tower with ease. But, sometimes the best way to inspect wind turbines and other utility infrastructure quickly and safely is to send up a drone.

The drones in our fleet are operated by a team of FAA-certified drone pilots, and we find new uses for them all the time.

DRONES CAN GO WHERE PEOPLE CAN'T

Drones help us inspect hard-to-reach areas, from natural gas pipeline under a bridge to the top of a wind turbine. If the terrain around equipment is unsafe, like flooded or storm-damaged areas, drones allow us to complete our inspections without putting crew members at risk. Not only do drones make the work safer and easier for our team, but the faster we can pin down an issue and fix it, the faster we can bring a turbine back online and generating clean energy for Iowa.

DRONES HELP US PREVENT BREAKDOWNS BEFORE THEY HAPPEN

Some of our drones are equipped with infrared cameras. Using heat signatures, we can easily identify whether things are working normally or if there are signs of trouble ahead. With this advanced technology, our crews are able to take safety and reliability to new heights. See our drones in action!

Scan the above QR code to watch a video about how drones have made operations throughout our company faster and safer.

FARM AND GRAIN BIN **SAFETY**

Harvest season is one of the most dangerous times of year for farmers. As a utility provider, we know how many steps go into working safely, and how little it can take for something to go wrong. Refresh your memory on working safely near power lines to help avoid risks and enjoy a successful harvest.

PLAN YOUR ROUTE

Equipment used for harvesting or grain handling, as well as storage structures like grain bins, can create a high risk of electrocution or injury if they are too close to power lines. Always maintain proper clearances between power lines and your equipment or structures. Visit MidAmericanEnergy.com/farm-safety to learn more.

PREPARE FOR TRANSPORT

Lower augers to transport level near power lines. Know the height of your cultivator or planter in the fold-up position, as it may be taller in transport than during field use.

STAY GROUNDED

Always make sure your auger system has a good ground connection. If your equipment meets a power line, stay put. If your tractor or other equipment comes into contact with a power line, stay seated until help arrives. Electrocutions happen most often when you move around in hopes of escaping danger. Keep still to keep safe.

EXIT PROPERLY IN AN EMERGENCY

If there is immediate danger, like a fire, put your feet together and jump as far away from your equipment as you can. After you land, try to shuffle your feet instead of walking. Do not allow your body to be in contact with the ground and your equipment at the same time.

LET US KNOW WHEN YOU'RE WORKING

We know your land is your livelihood. We strive to prevent our work from disrupting your operations as much as possible.

When you're planning your operations like harvesting, let us know so we can plan our work around yours! Contact your site manager or the wind line at 1-800-632-0999 to keep us in the loop.

ISSUES WITH ACCESS ROADS?

Has an access road been washed out or worn down? Call your site manager or the wind line at 1-800-632-0999 so we can work with you to schedule any needed repairs.



DIGGING AND EXCAVATING

Before beginning projects where you must dig or excavate, dial 811 or file a request at www.call811.com to learn if your project site is home to any underground gas, electric or other utilities. If you have underground lines, contact us at MidAmericanEnergy.com/digging-safety so we can establish practices to keep you and your project safe.

Coming in contact with an underground line can result in regional power outages, personal injury and even death. To learn more, visit our website and call us about your upcoming projects.

SEE HOW A SOLAR PROJECT GETS MADE

The wind projects you host play a critical role in our goal to meet our Iowa customers' electricity needs with 100% renewable energy. And, as solar technology has improved and become more viable for Midwest states like Iowa, we have begun to further diversify our renewable energy resources with new solar projects.



WHERE DOES SOLAR ENERGY GO?

Some of our solar projects are connected directly into the local electric distribution system, allowing the solar energy they produce to go straight to the communities hosting the project!



OUR ROAD TO NET ZERO

When our planned Wind PRIME project is completed, we will reach our goal of 100% renewable energy for our Iowa customers! But, our environmental efforts don't stop there. In order to reach our ultimate goal of net-zero greenhouse gas emissions by 2050, we're also planning to build out new transmission infrastructure and investigate emerging clean energy technologies.

In July, we flipped the switch on our 100-megawatt Holliday Creek solar project in Webster County, our biggest to date. The 265,000 solar panels can generate enough energy to power 19,000 Iowa homes!

We now have a total of six solar projects up and running, generating a total of 141 megawatts of clean, renewable electricity. The projects include:

LOCATION	MW
Waterloo solar project in Waterloo	3 MW
Hills solar project near Iowa City	3 MW
Neal solar project near Sioux City	4 MW
Franklin solar project near Hampton	7 MW
Arbor Hill solar project in Adair County	24 MW
Holliday Creek solar project in Webster County	100 MW

BEHIND THE SCENES CONSTRUCTION



Crews drive steel piles approximately 13 feet into the ground. For reference, our 3-MW Waterloo solar project contained over 1,400 piles. Our 100-MW Holliday Creek project contained approximately 45,000!



Motors are attached to drivelines, which are then used to rotate rows of torque tubes topped with solar modules. This allows the solar modules to track the sun from east to west to ensure maximum electricity generation.



Bearing housings sit on top of the piles to support movement from torque tubes. The torque tubes connect and form a row, holding the racking that house the solar modules.



Solar module installation then gets underway! Each module has a generating capacity of 340-445 watts.



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WE WANT TO **HEAR FROM YOU**

Keep in touch with us to ensure we have your current contact information and can provide you with essential documents.

We mail annual easement payments for each wind farm on a separate schedule. If you are a participating landowner in multiple MidAmerican wind farms, expect to receive separate checks at different times throughout the year.

