

# POWERLINE

NEWSLETTER FOR CO-OP MEMBERS OF CORN BELT ENERGY



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## What is grid resiliency?

Resiliency of the grid is one of the most popular concepts being talked about in the electric industry today. This concept recently made headlines in the wake of Hurricanes Irma and Maria, which caused extraordinary damage to Puerto Rico's electric grid resulting in the longest sustained outage in U.S. history. Lack of resilience became the go-to phrase to describe Puerto Rico's grid. Here in Illinois, what does grid resiliency mean for you?

Resiliency is many things – it's reliability in your electric service, it's our ability to efficiently restore your power, it's being able to meet the demands of new technology and it's how we serve you with various generation sources without skipping a beat. Ultimately, resilience is how we deliver on our promise to improve the quality of life for our member-owners. When it comes to having a resilient electric grid, it begins with a system that is designed and built to withstand high winds, powerful storms, cybersecurity threats and other disruptions that could result in outages. A resilient grid is also flexible and adaptable by allowing different types of generation – such as wind, solar, coal, natural gas, and nuclear – to seamlessly work together



to provide you with safe and reliable power. The way our systems react to advancements in technology – from demand response investments to serving the needs of electric vehicles – all factor into the resilience of our grid.

Resiliency is a 24/7, 365-days-a-year task. Whether it's the power lines, substations or generation facilities on our grid, it takes proactive maintenance and investment to keep them running smoothly. With thousands of consumers without

power for months, the lack of resiliency in Puerto Rico's power grid wasn't solely caused by hurricane damage; it was the result of years of neglect in taking care of their system and preparing for a worst-case scenario.

In a similar way to how we maintain our vehicles with regular oil changes, inspections and tire rotations, a grid must also be properly maintained. Throughout the year, we regularly conduct pole and line inspections. Our goal is to find a problem before it

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## Surge protection for your entire home

Storms often bring an increased threat of power surges which could damage your valuable electronics and appliances.

Many people think a blink in power is a surge, but these are generally caused by something such as a tree contacting a line. When a blink occurs, Corn Belt Energy's protective devices work, causing an interruption to protect the wires and other components.

What is a power surge? A power surge is defined as sudden, short-lived increase in voltage. Power surges can enter the home in a variety of ways including power lines, telephone lines, cable/satellite connections and any other metallic system that connects to your home.

Corn Belt Energy can help protect your home from the threat of power surges which could damage your valuable electronics and appliances.

### Internal Surges

80% of temporary power surges come from inside the home; protect your equipment with surge protector devices like power strips. Make sure to look for the UL 1449 label, which guarantees it meets tested and approved standards. Surge protectors carry a "joule" and/or a "surge-current" rating; the higher the rating of these two categories, the higher the quality of internal surge-stopping components. Corn Belt carries several surge strips and outlet receptacles that may fit your needs.

### External Surges

Whole-house protection is recommended for more severe surges, including lightning strikes. Corn Belt can install a surge protector on your exterior electric meter for \$6.95/month (200 amp meter) and a \$25 installation fee. 400 amp meter protection is available for \$8.95/month with a \$25 installation fee.

Inside your home, a panel-mounted circuit panel or service entrance suppression device (TVSS) forms a second layer of defense by greatly reducing harmful surges entering your home. A qualified electrician can ensure proper installation.

For more information, please visit our website at [www.cornbeltenergy.com](http://www.cornbeltenergy.com) or call us at 800-879-0339.

## What is grid resiliency?

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becomes one. For example, if we find a weak pole that has damage from termites, we replace that pole. Doing so ensures that pole is as strong – or as resilient – as it can be.

Living in Illinois, we know that significant power outages can occur,

especially as we enter spring and summer storm season. Whether we're at the mercy of tornados or thunderstorms coupled with high winds, we have confidence in the resiliency of our system to recover from the situation with as little disruption as possible.

In the dictionary, resilience is defined as "the ability to bounce back, recover quickly and go back into shape or position after being stretched." When it comes to providing our members with resilient service, this is what we work toward – day in and day out!

# Stay Away from Electrical Substations

An electrical substation converts electricity to a lower voltage so it can be safely routed and delivered to your home. Because high-voltage power runs through substation equipment, please avoid substation areas and the fences that surround them. Keep the following safety tips in mind:



Never release metallic balloons near substations. If they get caught in the equipment or lines, they can cause power outages.



Never fly kites or drones near electrical substations. If you do and the kite or drone gets caught inside the fence, let us retrieve it for you.



Teach youngsters to stay away from electrical substation fences. The area is dangerous, and these fences are NOT for climbing.



If you see a substation fence or transformer cabinet that is open or looks to be vandalized, please contact us immediately.



AMERICA'S ELECTRIC COOPERATIVES



## Summer safety tips

### Avoid Power Lines

Overhead wires enter houses and buildings at places called service drops. Service drops are not insulated, so never attempt to touch these wires.

Storms or accidents can sometimes cause power lines to fall to the ground. Assume any wire lying on the ground is carrying electricity and stay away from it. If you spot a downed wire, immediately call your local police and Corn Belt Energy; Keep others from getting near the downed wire until help arrives.

### Hot Tubs and Pools

Water and electricity never mix! Keep electronics like radios away from

pools and hot tubs, and watch for overhead power lines when cleaning pools, sailing or fishing. Never install pools underneath or near power lines. Never touch an electrical appliance if you are wet; always dry off completely.

### Outdoor Electronics

Be careful when using electrical appliances outdoors. Whether it's a bug zapper, an electric charcoal lighter, or a radio or CD player, use outlets that have weatherproof covers and ground fault circuit interrupters (GFCI) to prevent serious shock injuries. Use portable GFCIs for outdoor outlets that don't have them.



### Kites and Balloons

Since overhead power lines are not insulated, a kite or balloon string can conduct electricity to the ground. If a kite gets stuck in a tree that is near power lines, do not climb up to get it. Fly kites and model airplanes in large open areas like a park or a field.

### Tree Safety

Tree limbs that grow up near power lines can be unsafe. If you climb such a tree, you could get hurt from electrical shock. Never trim trees near power lines – if you see a tree growing too close to power lines, contact Corn Belt Energy to report it.

## CONTACT US

1-800-879-0339 | [cbec@cornbeltenergy.com](mailto:cbec@cornbeltenergy.com) | [www.cornbeltenergy.com](http://www.cornbeltenergy.com) |    
1 Energy Way, Bloomington IL 61705 | Office hours: Monday - Friday, 8:00 AM to 4:30 PM

