

SMART ENERGY PLAN

2025 Progress Report

Ameren Missouri's Smart Energy Plan is transforming the state's electrical grid by making critical upgrades to support reliability. The company is deploying advanced outage prevention technology, installing storm-hardened infrastructure, and bringing new energy sources online. These improvements ensure greater resilience against extreme weather, enable rapid restoration, and support our customers' energy needs year-round.



The Smart Energy Plan touches nearly every aspect of today's modern electrical grid. Through the Smart Energy Plan, Ameren Missouri is building new generation sources to reliably meet all of our customers' energy needs while also supporting economic development and the growing demand for reliable power. We are storm-hardening our power lines to be more resilient in the face of extreme weather and adding smart technology to automatically detect and isolate outages while rapidly rerouting and restoring power.



The extreme weather experienced in 2025 provides a glimpse into how these improvements responded to real-world challenges. The state's energy grid was tested again and again by everything from ice to extreme heat and multiple tornado outbreaks. Through it all, Ameren Missouri's investments in a smarter, stronger grid were working to keep the lights on for our customers.

—Tim Lafser,

Senior Vice President, Energy Delivery and
Operations Technical Services
Ameren Missouri



The Smart Energy Plan was created through forward-thinking and constructive utility legislation, first passed in 2018, which was extended and strengthened by subsequent legislation in 2022 and 2025. Through this framework, Ameren Missouri is advancing much-needed improvements to its aging electrical system to support reliability for its 1.3 million electric customers in the state.



Scan here to learn more about
Smart Energy Plan projects in
your area.



FOCUSED ON KEEPING COSTS DOWN

We continue working to keep customer rates as low as possible while making critical upgrades to build a stronger, smarter and more reliable energy system our customers expect. That's why our residential base rates are approximately 27%* below the Midwest and national averages compared to other electric utilities.

27%

below the Midwest and national average
residential rates

* Source: Average Residential Electric Prices – Edison Electric Institute (EEI), "Typical Bills and Average Rates Report" for 12 months ended June 30 each year through 2025. Ameren Missouri residential rates are 25% below the Midwest average and 29% below U.S. average according to the latest EEI report.

SMARTER OUTAGE PREVENTION

Distribution automation, collectively known as smart switches, is a key feature of the Smart Energy Plan. These devices monitor the grid 24/7 for any disruption in service, and automatically isolate areas where damage has occurred. Smart switches also automatically reroute power, enabling rapid restoration for customers farther away from the impacted area.

“

Smart switches are working around the clock, no matter the weather, to automatically detect and prevent service disruptions. Not only do they reduce the size and duration of outages, but these devices also allow our crews to find and fix the underlying issue more quickly. That's the Smart Energy Plan at work.

—**Ben Lynch,**
Director, Distribution Operations
Ameren Missouri.

”

The company has installed more than 2,100 smart switches throughout its service territory. While many of these devices are mounted on utility poles, automated technology has also been integrated into substation components, providing another layer of protection for customers. Distribution automation **prevented more than 160,000 customer outages** during major storms in 2025.



330,000
Outages prevented since 2021



PREVENTING OUTAGES DURING AN ICE STORM

In early January 2025, a major winter storm brought sleet, snow and freezing rain to large portions of Missouri. Heavy ice accumulation is particularly problematic for electric infrastructure, as the weight can snap tree branches and impact power lines. Smart switches automatically activated to lessen those impacts, preventing more than 14,000 outages throughout the state.



SMART GRID TECHNOLOGY IN CENTRAL MISSOURI

In 2025, the company upgraded or added nine smart switch devices in the Moberly area. In town, manual switches are being swapped for smart ones, which will support rapid restoration for more than 1,500 customers. These upgrades also include the installation of stronger composite poles, further bolstering reliability in the community. Just outside of town, Ameren Missouri deployed one of the first smart switches designed specifically to support 69-kilovolt subtransmission lines.

STORM HARDENING THE SYSTEM

Ameren Missouri maintains more than 4,000 miles of overhead subtransmission lines. Thanks to system hardening upgrades through the Smart Energy Plan, we are addressing some of the oldest and most at-risk circuits in the state – upgrading aging wood poles and adding composite poles and crossarms to support greater reliability. Ameren Missouri **upgraded more than 14,000 wood poles** in 2025 and **added more than 850 composite poles** to the grid.



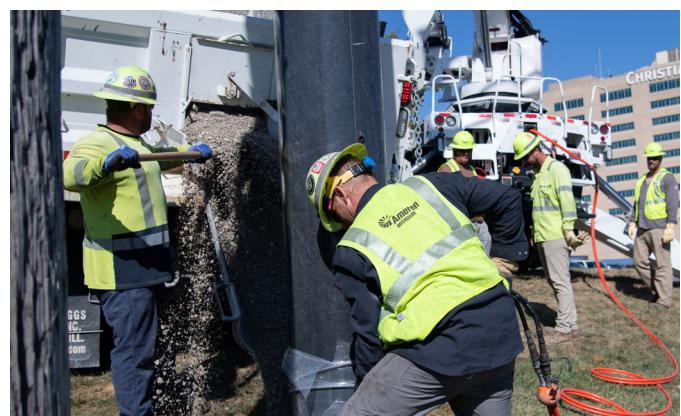
300 MILES
storm hardened since 2019

Composite poles and crossarms are made of fiberglass and resin. Their design can withstand more force without breaking than wooden materials. Additionally, these poles can prevent cascading damage by limiting impacts to the wooden poles between two composite poles. This, in turn, helps speed restoration by reducing the number of poles that need to be replaced.



REBUILDING WITH RESILIENCE

The southeastern Missouri city of Delta took a direct hit from an EF2 tornado that touched down near Cape Girardeau on April 2. In just four days, crews installed approximately 200 new utility poles and replaced thousands of feet of damaged wire. Ameren Missouri's Smart Energy Plan played a critical role in this effort, focusing on enhancing day-to-day reliability and storm resilience. Notably, several composite poles were added during the rebuild, preparing the electrical system to guard against future storm damage.



STORM HARDENING IN ST. LOUIS COUNTY

Ameren Missouri implemented storm-hardening upgrades on more than 40 miles of power lines throughout its service territory in 2025. In St. Louis County, crews upgraded an aging distribution line in Spanish Lake to storm-hardening standards. Portions of the line were also moved underground at a major highway crossing, which supports both reliability and public safety. These upgrades will benefit approximately 1,400 customers in the area.

MODERNIZING THE SUBSTATION FLEET

Substations are an important component of the electrical grid, transforming voltage and helping direct the flow of energy. Through the Smart Energy Plan, Ameren Missouri has upgraded more than 140 substations since 2019.

Improvements include retirement of aging equipment and the integration of smart technology, as well as expanded capacity to handle days of high demand and support operating flexibility.

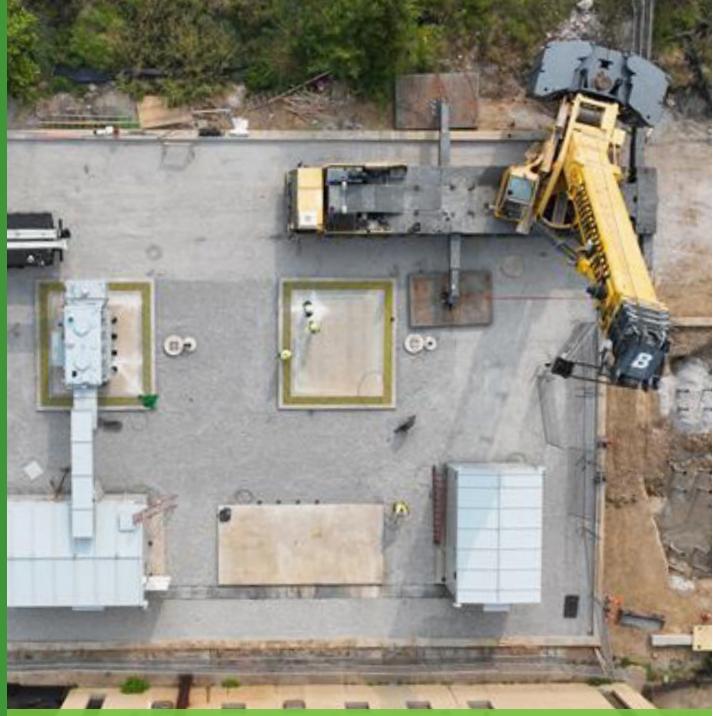


142 substations
upgraded since 2019



SUPPORTING A MORE RELIABLE REGION

Ameren Missouri's modernization of the Page and Maline bulk substations marks a major step forward for customer reliability in St. Louis. Upgraded transformers and control systems now help safeguard more than 100,000 customers from service disruptions. The new equipment's advanced features mean safer working conditions for crews and more consistent power for homes, schools and businesses. These improvements, part of a multi-year upgrade completed in 2025, support a more resilient energy future for the St. Louis region.



An upgraded substation under construction in St. Louis.



SUBSTATION UPGRADES IN WESTERN MISSOURI

Ameren Missouri made critical improvements to a substation that has been serving the community of Lawson for more than half a century. The substation transformer, which was originally installed during the 1950s, had reached the end of its useful life.

The new transformer resolves voltage issues and increases substation capacity. The added capacity will support reliability on days of high demand and create more operational flexibility to better respond to outages in the area. Upgrading this transformer supports reliability for 1,400 customers by reducing the risk of equipment failure.

TORNADO OUTBREAK TESTS SMART ENERGY PLAN UPGRADES

On the evening of Friday, March 14, severe thunderstorms slammed into Ameren Missouri's service territory. These storms generated multiple confirmed tornados, 75-plus mph winds and damaging hail, impacting critical utility infrastructure including substations, distribution and transmission lines and other equipment. Thanks to strategic investments in reliability through the Smart Energy Plan, Ameren Missouri was able to more quickly and safely restore power.

While thousands of Ameren Missouri team members and contractors deployed to restore service, the company also leveraged the power of smart technology to automatically prevent and limit outages. Smart switches activated during the March 14 storms prevented more than 83,000 customer outages in a two-day span.

An EF2 tornado that began near Villa Ridge traveled across Franklin County and into St. Louis County where it slammed into a recently storm-hardened line in Wildwood. The recently installed, more resilient composite poles held strong and prevented further damage to the line. With fewer wood poles to replace, crews were able to more quickly restore power to the community.



RESPONDING SMARTER, REBUILDING STRONGER

When an EF3 tornado tore through the St. Louis metro area on May 16, it left behind damaged homes, downed trees and a battered electric grid.

More than 2,000 personnel descended on the worst-hit areas in north St. Louis. This monumental task included rebuilding more than 100 miles of damaged electric lines and replacing more than 800 poles affected by the storm. Despite challenges posed by storm debris, crews were able to safely restore power to more than 100,000 customers in the first 48 hours following the tornado touchdown.

For tens of thousands of people in the path of the storm, restoration came even more quickly. Smart switches began automatically rerouting power to prevent an additional 34,000 outages. Those customers may have experienced a brief power interruption but otherwise avoided any prolonged service interruption.

The Smart Energy Plan also played a key role in rebuilding the system to be stronger and more resilient in the face of future storms. In addition to new wood poles, crews also installed more than a dozen composite poles during the rebuild, along with dozens of stronger composite crossarms, which mitigate outage risk. These targeted improvements will support greater resiliency in the face of future weather threats.



INVESTING IN RELIABLE ENERGY

Ameren Missouri continues to move toward a balanced energy generation portfolio to support reliability for the power needs of all our customers. This approach includes building new generation facilities while also investing in upgrades to support safe and reliable operations of existing generation assets, where it makes sense to best manage the cost to customers.

In 2025, the company carried out more than 100 projects to support upgrades to our existing generation fleet. Ameren Missouri also requested regulatory approval in 2025 for 1.45 gigawatts of new generation projects, including the company's first proposed battery storage facility.



A balanced generation portfolio is essential for ensuring reliable power for our customers, no matter the demand. By investing in innovative solutions such as battery storage technology, alongside on-demand and renewable resources, we are building a resilient system that can meet Missouri's growing energy needs.

—**Ryan Arnold,**

Vice President, Power Operations
Ameren Missouri



1,250+ MW
new energy since 2019



BUILDING FOR A RELIABLE FUTURE

Construction is progressing at Castle Bluff Energy Center. Castle Bluff is an 800-megawatt, quick-start generation facility designed to deliver energy at peak demand on the coldest winter days and the hottest summer afternoons, and to support the grid when renewable energy is otherwise unavailable.

The company also announced plans to build a similar facility, known as the Big Hollow Energy Center, which includes both natural gas and battery storage technology. Big Hollow would be the first utility-scale battery storage site for the company.

By taking advantage of existing infrastructure at both sites, Ameren Missouri will be able to reduce overall construction time and costs to customers.



HYDROPOWER UPGRADES DRIVE EFFICIENCY

In 2025, Ameren Missouri completed major upgrades at its Osage Energy Center inside Bagnell Dam. The facility has been providing hydropower energy in Missouri for nearly a century. Two of the original 1931 turbine runners were removed and upgraded with new, more efficient turbines. These upgrades support reliable generation for tens of thousands of Missouri households.

GROWING MISSOURI'S ECONOMY

Reliable, resilient infrastructure is an important consideration for businesses considering moving to or expanding in Missouri. By supporting reliability upgrades for all customers, the Smart Energy Plan is also fostering ideal conditions for businesses to thrive in the Show Me State.

In 2025, 35 businesses announced plans to move to or expand in our service territory, resulting in more than \$1.5 billion in planned capital investment and creating more than 2,200 new Missouri jobs.

Upgrades Drive Economic Development

Smart Energy Plan investments are playing a key role in the future of economic development in southeast Missouri. Amazon recently opened a \$15 million delivery station in Scott City, bringing 70 new jobs to the area. Ameren Missouri designed and built storm-hardened power lines through the new 380-acre SEMO Industrial Park, home to the Amazon facility. Infrastructure upgrades in the area are also boosting reliability for nearly 4,500 Scott City residents and businesses.



Reliable power is a driving force for growth and economic development. Ameren Missouri's efforts to modernize and strengthen the electric grid support our goal of attracting businesses, jobs and investment throughout the southeast Missouri region.

—**Shad Burner,**
CEO, Southeast Missouri Regional Economic Development Inc.



MADE IN MISSOURI, FOR MISSOURIANS

Washington, Missouri-based WEG Transformers USA has been a trusted partner in our ongoing efforts to modernize Missouri's energy infrastructure. WEG has played a key role in modernizing substations across the Ameren Missouri service territory, and WEG's growth reflects the economic impact of our Smart Energy Plan.

As a result of its partnership with Ameren Missouri, WEG has expanded its operations in Washington and now employs 560 people. In 2025, the company announced a \$77 million investment that will create 50 new jobs in Missouri. This is one more way the Smart Energy Plan is helping both Ameren customers and Missouri residents every day.

AT A GLANCE

Local Impact (2019-2025)



1,200+
Missouri-based suppliers



Located in **60+** counties



\$2.8B
spent with Missouri suppliers

SMART ENERGY PLAN

2025 Progress Report



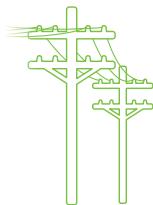
Every investment through the Smart Energy Plan – from new sources of energy generation to substations and stronger poles – makes the grid more resilient and reliable. As we move forward, each new upgrade builds upon the ones before it. Ameren Missouri is ready to continue this critical work through the Smart Energy Plan, to power the quality of life for years to come.

SMARTER, STRONGER, MORE RELIABLE*



2,150 smart switches

are now monitoring the grid 24/7. These devices can reduce outages from hours to minutes and even seconds by automatically isolating damage and rerouting power.



4,000+ composite poles

are protecting power lines from high winds and other hazards throughout Missouri.

Composite poles help **speed restoration** by limiting cascading damage.



330,000+ customer outages avoided with smart switch technology, equivalent to more than **90 million minutes** of outages prevented during major storms.



142 new or upgraded substations

placed in service to support reliability, increased capacity and operational flexibility.



300 miles of subtransmission lines have been storm hardened since the start of the Smart Energy Plan.



1,250 MW of new energy brought online through the Smart Energy Plan.