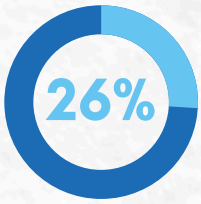
Ameren MISSOURI

CALLAWAY ENERGY CENTER

FACTS & STATS

Operating Performance

The Callaway Energy Center is a highly efficient, low-cost source of electricity for Ameren Missouri's 1.3 million customers.



of Ameren Missouri's generation (second largest)

NET GENERATION

9.2 million megawatt-hours of electricity = energy supply for **800k** average households

LOW RATES

Reliable, low-cost electricity from the Callaway Energy Center has been a key factor in keeping the price of electricity low for Ameren Missouri's customers. Ameren Missouri's electric rates are the lowest of any investor-owned utility in Missouri.

Callaway has achieved five "breaker-to-breaker" runs since it began operating in 1984. This means it operated from one refueling to the next without ever being out of service.

1 OF 26

of the nation's 94 nuclear plants to achieve even ONE breaker-to-breaker run.

FUEL STORAGE

Ameren Missouri has sufficient spent fuel storage capacity at Callaway Energy Center through 2044.* This capacity includes wet pool storage within the energy center, as well as the recently completed dry cask storage system built next to the energy center.

Safety Performance

- The Callaway Energy Center has established a strong record of safe operation throughout its 40-year operating history.
- In annual performance assessments, the U.S. Nuclear Regulatory Commission (NRC) staff has consistently reported that the energy center operated in a manner that preserved public health and safety.

Benefits to the State & Local Economy

The Callaway Energy Center is a major source of good-paying jobs.

800 employees and contractors

every 18 mo. refueling outages

During refueling outages, hundreds of supplemental workers are brought in for several weeks — providing a significant boost to the local economy.

$10 million out of $13 million in tax revenue goes to local schools

The energy center accounts for about $9.8 million of Ameren Missouri's annual property taxes paid to Callaway County.

*License extended through 2044 by the Nuclear Regulatory Commissions in March 2015.

Security

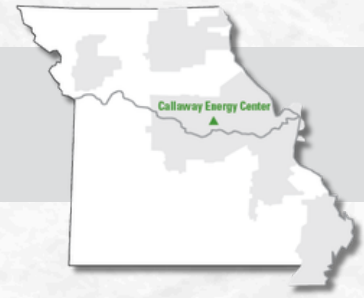
Ameren Missouri made significant security enhancements, including additional security manpower, since the Sept. 11, 2001 terrorist attacks. For the U.S. nuclear power industry as a whole, such expenditures have totaled more than $2 billion.

$24 million
spent on security enhancements since 9.11.01

Security enhancements at Callaway have included:

- Extending and fortifying security perimeters around the energy center
- Increasing patrols within security zones
- Installing new barriers to provide greater protection against threats to the facility
- Installing additional high-tech surveillance equipment
- Strengthening the coordination of security efforts with local, state and federal agencies

Callaway Energy Center security is routinely tested in drills and exercises every year. In addition, the NRC conducts "force on force" exercises at each nuclear station — using highly-trained paramilitary personnel — at least once every three years. The most recent force-on-force exercise was conducted at Callaway in Nov. 2024. Although details are confidential, Callaway security personnel performed at a very high level, resulting in no regulatory findings, violations or unresolved items.



Callaway Profile

5 miles north of the Missouri River

300 feet above average level of Missouri River

~1,200 megawatts (net) generating capacity

$3 billion cost to build

LOCATION:
Callaway County, Missouri. Ten miles southeast of Fulton, 25 miles northeast of Jefferson City, 100 miles west of St. Louis.

OWNER:
Ameren Missouri (formerly known as Union Electric Company). Ameren Missouri is a subsidiary of St. Louis-based Ameren Corporation. The Ameren companies serve 2.4 million electric customers and nearly 900,000 natural gas customers in a 64,000-square-mile area of Missouri and Illinois.

PLANT DESIGN:
Standardized Nuclear Unit Power Plant System (SNUPPS), using a Westinghouse four-loop pressurized water reactor and a General Electric turbine-generator.

ENGINEERING/CONSTRUCTION:
Bechtel Power Corporation, architect-engineer; Sverdrup & Parcel and Associates, Inc., architect-engineering consultant for site development; Daniel International Corporation, general contractor.

Construction History

July 16, 1973 Project announced and site selected.

April 1, 1975 Certificate of Convenience and Need granted by the Missouri Public Service Commission.

August 14, 1975 Limited Work Authorization granted by the U.S. Nuclear Regulatory Commission (NRC).

November 16, 1982 Initial fuel delivery.

June 13, 1984 Initial fuel load.

October 2, 1984 First nuclear chain reaction took place.

October 18, 1984 "Full power" operating license issued by the NRC.

December 19, 1984 Required testing completed; plant declared "fully operational."

Stats

More than 70 sites in four states were studied before the Callaway County site was selected.

REACTOR CONTAINMENT BUILDING

205 ft. tall

150 ft. diameter

Constructed of reinforced concrete and steel

COOLING TOWER

553 ft. tall
77 ft. shorter than the Gateway Arch in St. Louis

430 ft. in diameter at the base

Constructed of reinforced concrete

40,000 cu. yards of concrete were used in construction

585,000 of water per minute when the energy center is operating at full power

15,000 gallons are lost out the top through evaporation

11 mil. gallons of water are held in the cooling tower basin