



KENTUCKY'S TOUCHSTONE ENERGY COOPERATIVES

Data centers—today's infrastructure

Data centers are **secure infrastructure** that house thousands of computer servers and networking equipment that store, process and deliver the digital information people use every day.

They have evolved from mainframe computers and server rooms used for decades by businesses and organizations. Today, data centers support internet and cloud services used every day by billions of people around the globe.

The amount of digital data created worldwide has grown drastically. In 2017, the world transferred approximately 26 zettabytes of data. One zettabyte is equivalent to about 200 trillion typical photos taken by your phone. By 2025, that number had increased to about 175 zettabytes.

Without data centers, many of the internet-connected technologies and digital services we rely on every day

would not function. Think of data centers as the interstates of our road system in today's digital world. They provide the ability for data to flow in large volumes at a much quicker pace.

Nearly every online activity we create relies on data centers including:

- **GPS navigation and mapping services**—Process real-time location data and provide directions, traffic updates and accurate maps.
- **Streaming TV, movies and music**—Store and deliver content instantly to millions of screens around the world.
- **Social media, email and online gaming**—Keep us connected, informed and entertained through data stored and updated in real time.
- **Medical records and healthcare systems**—Securely store and share patient information and support life-saving tools and research.

- **Banking, online shopping and business applications**—Protect sensitive information and power the tools we use to manage money, shop and run businesses.

Data centers can store and process many different types of information at the same time. While some are dedicated to a specific purpose, such as healthcare or banking, many support a wide range of digital services.

Every like, click, call and stream creates data. Every search, scan and sensor sends data. And just like interstates are crucial to support traffic flowing across the nation, data center infrastructure will help our communities and nation grow. Behind it all, EKPC and your local co-op will power this infrastructure needed to keep your data moving.

Affordability is our goal

At your local electric cooperative, nearly three-fourths of the costs come from East Kentucky Power Cooperative. Why? EKPC operates the power plants that

make electricity. They are the biggest cost of electric service.

Household costs are going up for most everything, including food,

housing and transportation. Our co-ops face similar increases. We are working to hold the line on costs.

At EKPC, we have a long-term plan

How we are working to protect affordability



We advocate for the people we serve

- Not-for-profit, member-owned.
- Based in your community.
- Serving rural Kentucky.

Be fair and efficient, and protect members

- Data centers pay their own way.
- Large users can help to stabilize rates for everyone.
- Data Center Power tariff shields members from costs.



Buy low, sell high

- Rely on power plants we own, not volatile power markets.
- Leverage EKPC's assets in markets to maximize efficiency, reduce costs.
- Kentucky's energy policies work, unlike many other states.

to better control and manage costs. For example, the past few winters, we have faced tremendous volatility in fuel prices during extreme cold weather.

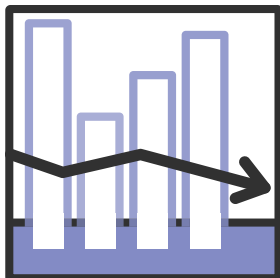
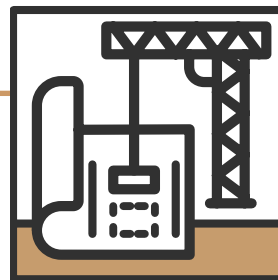
EKPC has a plan to limit fuel-cost volatility and better control prices.

Together with our 16 owner-member cooperatives, we want to work with you

to improve energy efficiency, manage costs and maintain affordable, reliable electric service.

Plan carefully; act decisively

- Maintain reliability and affordability.
- Timing of infrastructure matches needs and is cost-effective.
- Monitor changing landscape and seek opportunities.

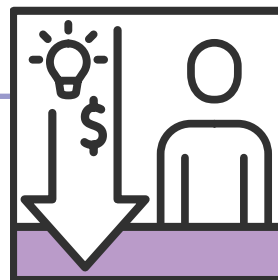


Relieve seasonal price spikes

- Transform power plant fleet.
- Increase flexibility to hedge costs.
- Control fuel costs.

Help members use less and pay less

- Using less means lower bills.
- Co-ops have programs and expertise to help members save money.
- TogetherWeSaveKY.com



Affordability and data centers

Data centers can help stabilize electric rates for everybody. It is necessary to have the right rules in place.

EKPC and our 16 owner-member cooperatives have strong protections to ensure data centers—not other cooperative members—pay for all electricity and infrastructure needed to serve them. That is the idea behind our Data Center Power tariff, approved last year by the Kentucky Public Service Commission.

Data centers will pay up front for all of the new infrastructure—power plants, power lines, transformers, etc.—needed to serve them. Like every cooperative member, they will pay a per-kilowatt hour rate that will

contribute toward other costs of operating our cooperatives.

Because they will use many more kilowatt-hours than other members, data centers will pay a larger portion of cooperatives' operational costs, helping push against the ongoing pressures of rising costs. All members will benefit from the additional returns provided by any new large loads.

Because our co-ops are not-for-profit organizations, any contribution to the bottom line will benefit all of our members by helping to keep costs low. The result is stabilized electric rates.

To learn more about EKPC's efforts on data centers please visit ekpc.coop/data-centers.

EKPC signs Ratepayer Protection Pledge

EKPC has signed President Donald Trump's Ratepayer Protection Pledge, promising to protect reliable, affordable electricity for America's families while meeting the energy needs of data centers.



 **EAST KENTUCKY POWER COOPERATIVE**
A Touchstone Energy Cooperative

Use Less To Save More

Complete a no-cost online analysis of your home today. We can help identify opportunities to save on your energy bills. Your personalized energy report allows you to budget home expenses and make informed decisions when it comes to buying energy-efficient appliances.

www.TogetherWeSaveKY.com



Kentucky's
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