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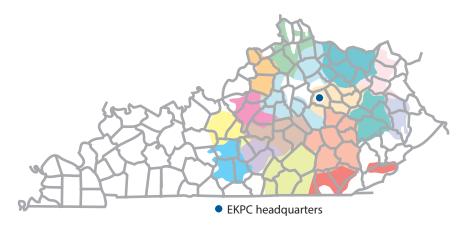


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Who We Are

Located in the heart of the Bluegrass state, East Kentucky Power Cooperative is a not-for-profit generation and transmission (G&T) electric utility with headquarters in Winchester, Ky. Our cooperative has a vital mission: to safely generate and deliver affordable, reliable, sustainable electric power to 16 owner-member cooperatives serving more than one million Kentuckians.

Together, with our 16 owner-members, we're known as Kentucky's Touchstone Energy Cooperatives. The member co-ops distribute energy to over 569,000 Kentucky homes, farms, businesses and industries across 89 counties. We're leaders in energy efficiency and environmental stewardship. And we're committed to providing power to improve the lives of people in Kentucky.



Sixteen distribution cooperatives, which are called the member systems, own EKPC. The 16 co-ops include:

- Big Sandy RECC
- Blue Grass Energy Cooperative
- Clark Energy Cooperative
- Cumberland Valley Electric
- Farmers RECC
- Fleming-Mason Energy Cooperative
- Grayson RECC
- Inter-County Energy

- Jackson Energy Cooperative
- Licking Valley RECC
- Nolin RECC
- Owen Electric Cooperative
- Salt River Electric Cooperative
- Shelby Energy Cooperative
- South Kentucky RECC
- Taylor County RECC

East Kentucky Power Generation

Coal	Generation	Natural Gas	Generation	Landfill	Generation
Spurlock	1,346 net MW	Smith	Summer	Bavarian	4.6 net MW
Cooper	341 net MW	Combustion	753 net MW	Green Valley	2.3 net MW
		Turbine	Winter	Hardin	2.3 net MW
Total	1,687 net MW	Units	989 net MW	Pendleton	3.0 net MW
				Glasgow*	0.9 net MW
		Bluegrass	Summer		
		Combustion	501 net MW	Total Landfill	13.1 net MW
Unidan	C	Turbine	Winter		
Hydro Southeastern	Generation 170 MW	Units	567 net MW		
Power Adm. (SEPA)		Total Natural Gas Summer Total Natural Gas Winter	1,254 net MW 1,556 net MW	SolarGeneration Cooperative Solar	8.5 net MW

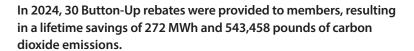
^{*} Under an existing agreement, a third party receives the output of Glasgow in a 10-year power purchase agreement.

Button-Up Weatherization:

Since the early 1990s, EKPC and its owner-member cooperatives have offered this program to improve a home's energy efficiency, comfort, and reduce energy use. This program offers incentives to members who air seal the shell of their home with the end goal of reducing heat loss in the home. Any member who resides in a site-built or manufactured home that is at least two years old and uses electricity as their primary source of heat is eligible.

Button-Up Weatherization with Air Sealing:

The Button-Up encourages members to air seal the envelope of their home. Air sealing is one of the most cost effective ways to improve the efficiency of a home. A blower door test is required before and after air sealing is completed to demonstrate the impact in kW demand reduction, and an incentive is paid based on that reduction. Additional incentives are paid for increasing ceiling insulation and/or sealing ductwork.





ENERGY STAR® Manufactured Home:

The ENERGY STAR® Manufactured Home Program began in 2014. End-use members who purchase and install an ENERGY STAR® Manufactured Home are eligible for a rebate. ENERGY STAR® Manufactured Homes are certified by a third-party administrator, Systems Building Research Alliance (SBRA) in order to ensure quality control.

An ENERGY STAR® certified manufactured home is a home that has been designed, produced and installed by the home manufacturer to meet ENERGY STAR® requirements for energy efficiency. These manufactured homes feature efficient heating and cooling equipment, water heaters, properly installed insulation, high-performance windows, tight construction and sealed ducts.



During 2024, new federal tax credit for manufactures, ensured that most homes coming into Kentucky were automatically upgraded to efficiency levels exceeding the ENERGY STAR® manufactured home requirements. As a result, KY's Touchstone Energy Cooperatives ended their incentive for an ENERGY STAR® manufactured home to avoid free ridership. This program iswas available to all end-use members who qualifiedy.

In 2024, 2 rebates were provided to members, resulting in a lifetime savings of 22 MWh and 342,600 pounds of carbon dioxide emissions.

Touchstone Energy Home:

Since 2003, EKPC and its owner-member cooperatives have offered this program to increase energy efficiency in new-home construction. This program is designed to encourage new homes to be built to higher standards for thermal integrity and equipment efficiency, as well as to choose a geothermal or an air-source heat pump, rather than less efficient forms of heating and cooling. Homes built to Touchstone Energy Home standards typically use 30 percent less energy than the same home built to typical construction standards. Plans are submitted before the home is built, a pre-drywall inspection is made, and a blower door test is administered after the home is built to verify that the home meets the standard.

This program is targeted towards the residential new construction market and members who are constructing new site-built homes.

In 2024, 614 Touchstone Energy Home rebates were provided to members, resulting in a lifetime savings of 39,079 MWh and 78,158,080 pounds of carbon dioxide emissions.

EKPC's owner-members have also used this program to partner with Kentucky's affordable housing builders. Relationships with these organizations have led to improved efficiency in affordable housing and lower monthly energy costs for recipients of these homes.



Heat Pump Retrofit:

For decades, EKPC and its owner-member cooperatives have offered this program to lower the cost of heating homes and increase comfort. This program provides incentives for members to replace their existing resistance heat source with a high-efficiency heat pump through two levels of rebates.

Level 1 offers a rebate for a federal minimum standard heat pump. Level 2 offers a rebate for a ENERGY STAR® level heat pump or higher heat pump. Popularity of mini-split ductless heat pumps has risen in recent years. The retrofit program also offers a special incentive for mini-split systems. The existing heating system must be two years or older to qualify for incentives unless the heat pump is being installed in a new manufactured home. New manufactured homeowners who install a heat pump qualify based on the levels above.

The program is targeted to members who currently use a resistance heat source. Incentives are offered when the homeowner's primary source of heat is an electric resistance furnace, ceiling cable heat, or baseboard heat in both site-built and manufactured homes.

In 2024, 329 Heat Pump Retrofit rebates were provided to members, resulting in a lifetime savings of 48,560 MWh and 97,120,280 pounds of carbon dioxide emissions.



Direct Load Control:

Since 2008, EKPC and its owner-member cooperatives have offered this program to manage peak usage. This program offers incentives to members who enroll central air-conditioners. Switches are installed and, during periods of high demand, the utility briefly cycles the appliance off in order to reduce system peaks and save on costs for peak power. Although EKPC's system typically peaks in winter, member's heating appliances are not interrupted to lower peak. Member comfort and safety are top priority.

This program is targeted to any member with central air-conditioning or heat pump. Beginning in 2019, EKPC also began offering a thermostat program that includes a qualifying Wi-Fi enabled thermostat so that end use members could enroll their smart thermostats in direct load control events. Enrollees in this program help lower energy demand during EKPC's system peaks.



CARES:

The Community Assistance Resources for Energy Savings (CARES) program began in early 2015, and provides an incentive to enhance the weatherization and energy efficiency services provided to the end-use members by the Kentucky Community Action Agencies (CAA) network and Kentucky's Affordable Housing Organizations (AHO). EKPC and its owner-members provide an incentive to the CAA implementing the project on behalf of the end-use member.

This program is available to end-use members who qualify for weatherization and energy-efficiency services through their local CAA in all service territories of participating cooperatives. The maximum incentive possible per household is \$2,000.

In 2024, 111 CARES incentives were provided, resulting in a lifetime savings of 7,806 MWh and 15,612,300 pounds of carbon dioxide emissions.



Residential Off-Peak Electric Vehicle Pilot Program:

In 2024, East Kentucky Power Cooperative and its owner-members received approval to conduct an Off-Peak EV charging pilot. The pilot program offers a \$.02 per kWh incentive for energy consumed by the EV during off-peak hours (10 p.m. and 6 a.m. eastern prevailing time year round). EV owners charging their EV as soon as they arrive home (typically at peak demand times in the early evening), create a significant demand on the grid, resulting in increased cost for the co-op. By delaying EV charging to after 10 p.m., EV owners can reduce the energy demand cost during those peak times. This program helps owner-member co-ops shift peak demand times and helps end-use members save money.



Impact Measures:

System summary of 2024 DSM program savings

DSM program totals (totals for installed energy-efficiency measures and total DLC participation for 2024)

All programs	Participation	Annual Energy Savings (MWh)	Summer Demand Savings (MW)	Winter Demand Savings (MW)	2024 program costs*	Lifetime energy savings (MWh)	Cost of demand saved (\$/kW)	Cost of energy saved (\$/kWh)	Lifetime CO2 savings (lbs)
All DSM Programs	28,355	5,242	26.343	6.435	\$4,567,637	97,839	\$73	0.027	195,677,718

Button-Up Weatherization

Residential program	Participation	Annual Energy Savings (MWh)	Summer Demand Savings (MW)	Winter Demand Savings (MW)	2024 program costs	Measure life (years)	Lifetime energy savings (MWh)	Cost of energy saved (\$/kWh)	Lifetime CO2 savings (lbs)
Button-Up	30	151	0.036	0.117	\$27,358	15	2,272	\$0.01	4,543,458

CARES

Residential program	Participation	Annual Energy Savings (MWh)	Summer Demand Savings (MW)	Winter Demand Savings (MW)	2024 program costs	Measure life (years)	Lifetime energy savings (MWh)	Cost of energy saved (\$/kWh)	Lifetime CO2 savings (lbs)
CARES	111	520	0.079	0.158	\$276,953	15	7,806	\$0.04	15,612,300

^{*} Includes \$927,968 program administration and promotional expenses.

ENERGY STAR® Manufactured Home

Residential program	Participation	Annual Energy Savings (MWh)	Summer Demand Savings (MW)	Winter Demand Savings (MW)	2024 program costs	Measure life (years)	Lifetime energy savings (MWh)	Cost of energy saved (\$/kWh)	Lifetime CO2 savings (lbs)
ES Manufactured Home	2	8	0.001	0.002	\$4,280	15	122	\$0.04	243,600

Heat Pump Retrofit

Residential program	Participation	Annual Energy Savings (MWh)	Summer Demand Savings (MW)	Winter Demand Savings (MW)	2024 program costs	Measure life (years)	Lifetime energy savings (MWh)	Cost of energy saved (\$/kWh)	Lifetime CO2 savings (lbs)
Heat Pump	329	2,428	0.111	0.000	\$560,605	20	48,560	\$0.01	97,120,280

Touchstone Energy Home

Residential program	Participation	Annual Energy Savings (MWh)	Summer Demand Savings (MW)	Winter Demand Savings (MW)	2024 program costs	Measure life (years)	Lifetime energy savings (MWh)	Cost of energy saved (\$/kWh)	Lifetime CO2 savings (lbs)
TSE Home Prescriptive	27	86	0.019	0.070	\$39,150	20	1,713	\$0.02	425,760
TSE Home Performance	587	1,868	0.418	1.537	\$854,050	20	37,366	\$0.02	74,732,320

Direct Load Control Cumulative

Residential program	Participation	Annual Energy Savings (MWh)	Summer Demand Savings (MW)	Winter Demand Savings (MW)	2024 program costs	Cost of Demand saved (\$/KW)
DLC Air Conditioner	11,983	59.915	11.983	0.000	\$743,594.64	\$62.05
DLC Water Heater	8,749	7.490	3.237	4.549	\$535,027.79	\$165.28
Thermostats	6,537	2.685	6.990	0.000	\$598,650.49	\$57.24
Totals	27,269	180.09	26.435	4.549	\$1,877,272,92	\$73.10

2024 Basic Program Assumptions ¹

Measure: Button-Up Weatherization with Air Sealing

Annual kWh Saved: 2,253
Winter Demand Savings: 1.74
Summer Demand Savings: 0.53
Lifetime of Savings: 20 years
Installation Rate: 100%
TRC: 2 1.68

Measure: Heat Pump Federal Standard

From Electric Furnace & CAC to Heat Pump Federal Standard

Annual kWh Saved: 7,533
Winter Demand Savings: 0
Summer Demand Savings: 0 .32
Lifetime of Savings: 20 years
Installation Rate: 100%
TRC: 2 1.60

Measure: Heat Pump ENERGY STAR®

From Electric Furnace & CAC to ENERGY STAR Heat Pump

Annual kWh Saved: 7,978
Winter Demand Savings: 0
Summer Demand Savings: 0.45
Lifetime of Savings: 20 years
Installation Rate: 100%
TRC: 2 1.60

Measure: Touchstone Energy Home

Prescriptive or Performance

Annual kWh Saved: 3,172
Winter Demand Savings: 2.94
Summer Demand Savings: 0.70
Lifetime of Savings: 20 years
Installation Rate: 100%
TRC: 2.10

Measure: Wi-fi Enabled Thermostat

Annual kWh Saved:	36
Winter Demand Savings:	0.00
Summer Demand Savings:	1.20
Lifetime of Savings:	15 years
Installation Rate:	100%
TRC:	2.17

Measure: CARES

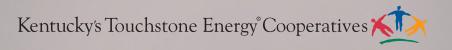
Annual kWh Saved:	4,495
Winter Demand Savings:	1.34
Summer Demand Savings:	0.66
Lifetime of Savings:	15 years
Installation Rate:	100%
TRC:	1.15

Measure: ENERGY STAR® Manufactured Home

Annual kWh Saved:	4,060
Winter Demand Savings:	0.93
Summer Demand Savings:	0.47
Lifetime of Savings:	15 years
Installation Rate:	100%
TRC:	1.62

¹ Savings numbers are "ex ante" or as planned gross savings except where noted.

² Total Resource Cost (TRC) is an overall program benefits/costs analysts ratio.



Big Sandy RECC Blue Grass Energy Clark Energy Cumberland Valley Electric Farmers RECC
Fleming-Mason Energy Grayson RECC Inter-County Energy Jackson Energy Licking Valley RECC Nolin RECC
Owen Electric Salt River Electric Shelby Energy South Kentucky RECC Taylor County RECC



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