

**2024 CPCN/Tariff filing**

**System year 1 is 2025**

**Community Assistance Resources for Energy Savings (CARES)**

The CARES program provides an incentive to enhance the weatherization and energy efficiency services provided to qualifying Residential end-use members by the Kentucky Community Action Agencies ("CAA") network and Affordable Housing Organizations ("AHOs"). EKPC and its owner members provide an incentive to the agency implementing the project, The incentive assists the CAA in weatherizing more homes and provide additional energy efficiency improvements in each home.

<u>Assumption</u>	<u>Source</u>
<b>Load Impacts</b> Before Participant 10,500 kWh, 8.12 kW (coinc. with winter system peak), 2.47 kW (summer). 750 therms  Savings: <b>5,735 kWh 4.21 kW (winter), 1.81 kW (summer) 59 therms</b>  After Participant 4,765 kWh, 3.91 kW (coincident with winter system peak), 0.66 kW (summer), 691 therms	Mix of Furnace/Central AC and air source heat pump weighted according to saturation in existing single family homes. 70% heat pump, 30% furnace/CAC.  GDS kWh savings for building shell,duct sealing, heat pump retrofit (eligible homes), and water heater wrap, weighted by heating type. kW impacts based on planning load profile  Before participant net of savings
<b>Lifetime of savings</b> <b>Discount rate for TRC and RIM</b> <b>Generation Capacity Cost - \$174.60</b> per kW-year (no escalation). 73% winter 27% summer. <b>Avoided Electricity Energy Costs - PJM Market, AEP-Dayton hub, \$45.96 /MWh</b> in 2025 <b>Transmission Capacity Cost - OATT tariff \$ 35.76 per kW-year in 2025</b> <b>Distribution Capacity Cost - \$ 4.93 per kW-year in 2025</b> <b>Avoided Gas Commodity Costs - \$3.94</b> per Mcf in 2025 <b>Participant Costs \$ 3,803</b> <b>Tax credit (benefit): \$0</b>	<b>17</b> Years <b>5</b> percent per EKPC financial data; 3.5 % societal test from Mercatus Center report <b>Avoided costs of a RICE unit. Updated escalators to match. Allocation is 73% winter 27% summer. Summer values based on PJM capacity performance market December 2023 with IHS Markit forecast, start year is 2024.</b>  based on December 26, 2023 ACES Forward prices for AEP_Dayton hub. <b>\$45.96 /MWh</b> in 2025. DSMore <b>Scenario 9, 0.587 esc in 2025</b>  Network rate, 2023-24. 2.8 % escalation rate based on 10 yr PPI.. Applied to winter coincident peak.  Based on marginal cost of distribution. 2.8 % escalation rate based on 10 yr PPI. . Applied to winter coincident peak.  DSMore scenario <b>1, 1.34 esc in 2025</b> . Based on Aces Henry Hub 1/11/2024 forecast . GDS costs for measure bundles Not applicable
<b>Administrative Cost</b> EK <b>\$5,756</b> (2025 value) fixed annual (2025-2039). 2% esc  Co-op <b>\$200</b> per new participant	Program admin - 2022 value of \$5,300 adjusted to 2025..  Based on new program design
<b>Rate Schedule - Retail</b>  Median Residential Rate for Co-ops Cust chrg <b>\$16.09</b> , Energy Rate <b>\$0.088229</b> <b>Rate Schedule - Wholesale</b>  East Kentucky E-2 rate. <b>Natural gas delivery rate</b> is <b>\$ 5.2528</b> per Mcf in 2018 ( <b>\$0.52528</b> per ccf for DSMore units)	Current rates in effect as of January 2024.. <b>includes Environmental Surcharge and FAC</b>  Current rates in effect as of January 2024. <b>includes Environmental Surcharge and FAC</b> Current rates as of November 2023. From Columbia Gas of KY GSR rate. Sum of base rate charge and gas cost demand. DSMore adds in the commodity portion using the market forecast.
<b>Participation - 2025: 120. 2026-2039: 120 per year. 0% Free Riders</b>	2025 - existing programs based on 2023 annual report. New programs - 0 (they begin in 2026).. 2026-2039 based on proposed new budget
<b>Rebates</b> Co-op to Participant <b>\$ 2,236</b> , 2% esc EK to Co-op <b>\$2,710</b> , 2% esc	<b>Based on proposed tariff. Weighted by heating type</b> <b>Based on proposed tariff. Weighted by heating type</b>