2024 CPC	N/Tariff filing
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System year 1 is 2025

Heat Pump Retrofit - Mini-split (2 heads)

Case:	Min	i-sn	lit.	2	heads
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EK to Co-op **\$ 1,960**, 2% esc

This program encourages Residential end-use members to convert their primary heat source from electric resistance heat to an efficient air source heat pump. This program has five heat pump cases: Federal Standard, ENERGY STAR®, and Mini-splits (1,2, 3 heads).

•	has five heat pump cases: Federal Standard, ENERGY STAR®, and Mini-splits (1,2, 3 heads).
<u>Assumption</u> Load Impacts	Source
Before Participant 14,843 kWh, 8.12 kW (coinc. with winter	
system peak), 2.25 kW (summer)	Electric Furnace and Central AC
Savings: 4,746 kWh .0.85 kW (winter), 0.14 kW (summer) After Participant	GDS kWh Ductless HP 9.4 HSPF2, Elec resistance Baseline, adjusted for 2 heads instead of 3 heads. kW impacts based on planning load profile
10,097 kWh, 7,27 kW (coinc. with winter system peak), 2.08 kW (summer)	Before participant net of savings
Lifetime of savings	16 Years
Discount rate for TRC and RIM	5 percent per EKPC financial data; 3.5 % societal test from Mercatus Center report
Generation Capacity Cost - \$174.60 per kW-year (no escalation). 73% winter 27% summer.	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.
Avoided Electricity Energy Costs - PJM	based on December 26, 2023 ACES Forward prices for AEP Dayton hub. \$45.96 /MWh in
Market, AEP-Dayton hub, \$45.96 /MWh in 2025	2025. DSMore Scenario 9, 0.587 esc in 2025
Transmission Capacity Cost - OATT tariff \$ 35.76 per kW-year in 2025	Network rate, 2023-24. 2.8 % escalation rate based on 10 yr PPI Applied to winter coincident peak.
Distribution Capacity Cost - \$ 4.93 per kW-year in 2025	Basd on marginal cost of distribution. 2.8 % escalation rate based on 10 yr PPI Applied to winter coincident peak.
Participant Costs \$ 448 2% esc.	GDS costs for measure, adjusted for 2 heads instead of 3 heads
Tax credit (benefit): \$1,334	30% of heat pump cost (2 head), less utility subsidy, subject to \$2,000 cap
Administrative Cost	
EK \$6,175 (2025 value) fixed annual	
(2025-2039),	Fixed admin - 2021 value of \$5300 escalated to 2025
Co-op \$180 per new participant	based on proposed tariff
Rate Schedule - Retail	
Median Residential Rate for Co-ops Cust chrg \$16.09, Energy Rate \$.088229 Rate Schedule - Wholesale	Current rates in effect as of January 2024 includes Environmental Surcharge and FAC
East Kentucky E-2 rate.	Current rates in effect as of January 2024. includes Environmental Surcharge and FAC
Participation - 2025: 31. 2026-2039: 44 per year. 0% Free Riders	2025 - existing programs based on 2023 annual report. New programs - 0 (they begin in 2026) 2026-2039 based on proposed new budget
Rebates	
Co-op to Participant \$ 1,000, 2% esc	Proposed for new program design.
	Based on proposed tariff. Reimburse for rebate, 50% of admin costs, plus
EK to Co-on \$ 1 960 2% acc	compensation for lost margins

compensation for lost margins.