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System year 1 is 2025

For analysis purposes, the unit of participation is 1 kW connected load savings. Rebates are per kW.

Commercial Advanced Lighting program

This program promotes energy efficiency by offering incentives to non-residential enduse members to install high-efficiency LED lighting in their facilities.

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Load Impacts

Before Participant 48,000 kWh, 5.1 kW (coincident with winter system peak), 9.6 kW (summer)

Savings: 4,250 kWh 0.45 kW (winter), **0.64** kW (summer)

After Participant

43.750 kWh, 4.65 kW (coinc. with winter system peak), 8.96 kW (summer)

Source

ighting load for typical 8.000 square foot commercial building. EUI of 6 kWh per square foot (sources: EPRI Market Profiles, Duke Power end use metering study).

Savings in connected load of 1 kW: coincidence/diversity factor of 0.85 in Summer,. kWh savings based on DSManager factor for kWh savings per kW. kW impacts based on planning load profile

Before participant net of savings

Lifetime of savings Discount rate for TRC and RIM

Generation Capacity Cost - \$174.60 per kW-year (no escalation). 73% winter 27% summer.

Avoided Electricity Energy Costs - PJM

in 2025

\$ 44.34 per kW-year in 2025

kW-year in 2025

Participant Costs \$ 2,210 per unit.. 2%

Tax credit (benefit): \$0

Administrative Cost EK **\$0** (2025) ,**\$20**,000 (2026),

\$10,400 fixed annual (2027-2039). 2% esc

Co-op **\$32** per new unit (1 kW), 2 % esc.

15 Years, based on GDS measures in 2024 potential study

5 percent per EKPC financial data; 3.5 % societal test from Mercatus Center report 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.

Market, AEP-Dayton hub, \$45.96 /MWh based on December 26, 2023 ACES Forward prices for AEP_Dayton hub. \$45.96 /MWh in 2025. DSMore Scenario 9, 0.587 esc in 2025

Transmission Capacity Cost - OATT tariff Point-to-point rate (12 CP), 2023-24. OATT. 2.8 % escalation rate based on 10 yr PPI... Applied to summer coincident peak.

Distribution Capacity Cost - \$ 4.93 per Based on marginal cost of distribution. 2.8 % escalation rate based on 10 yr PPI. . Applied to summer coincident peak.

> Based on median measure cost per kWh in GDS 2024 potential study (office lighting) No tax credit available for this program

Note: no program in Year 1. Year 2 only: program setup, marketing, verification, , rebate processing, general admin, Years 3 forward: marketing, verification, rebate processing, general admin,

Site visit. Assumes typical savings per facility is 4 kW. Labor costs are \$128. (2 hours).

Rate Schedule - Retail

South Kentucky B rate Cust chrg \$40.00, Energy Rate \$.08742

Rate Schedule - Wholesale

East Kentucky E-2 rate.

Current rates in effect as of January 2024. plus Environmental Surcharge and FAC

Current rates in effect as of January 2024..plus Environmental Surcharge and FAC

Participation - 2025: 0. 2026-2039: 1,000 units per year. 10% Free

Riders

Per program design. Participation unit is 1 kW connected load reduction. Program starts 2026.

Rebates

Co-op to Participant \$ 250 per unit, 2% | Per program design EK to Co-op \$ 610 per unit, 2% esc

Per program design