

Lighting Retrofits

Under Pennsylvania's Act 129 Energy Efficiency Program, lighting retrofits remain one of the highest-impact, lowest-risk efficiency investments for small commercial customers. Lighting retrofits are also the largest energy efficiency contributor to Tier II credits in the PA AEPS.

What qualifies

Eligible projects include the replacement of existing lighting with more efficient lighting. For example, a project may consist of replacing existing fluorescent lighting with LED lighting or LED retrofit kits in small commercial spaces. Other lighting improvements include

- LED lamps/bulbs
- LED exit signs
- Occupancy and lighting controls
- High-efficiency fluorescent tubes
- Outdoor and area lighting
- Reach-in freezer/refrigerator LED lighting

How are savings calculated

Annual savings are calculated using defined baseline and post-retrofit fixture wattages, deemed or actual hours of use by building type, and cooling/heating types. For example, a small office building generally has 2,294 hours of use per year.

Measure life & value

Most lighting retrofits have a 15-year measure life for LED lighting equipment, making lighting retrofits a durable, long-term contributor to the PA AEPS. Savings are documented and verified using the PA TRM to ensure consistent and approved results for both a utility rebate and PA AEPS eligibility.

Applying to the PA AEPS

Please refer to the attached document to learn more about the PA AEPS program and Tier II credits. Lighting retrofits can qualify for a utility rebate and are also eligible in the PA AEPS. If a utility rebate is received, the easiest means to apply to the PA AEPS is to submit the utility rebate paperwork to the PA AEPS Program Administrator. Additionally, we recommend saving energy audits, spec sheets and invoices as reference materials.

Questions

Please feel free to contact the PA AEPS Program Administrator to learn more about the PA AEPS or to ask questions specific to your project.



www.inclimatesolutions.com

(877)-333-0573 | customerservice@pennaeps.com

InClima, Inc. is the Third-Party Program Administrator for the Pennsylvania Alternative Energy Portfolio Standards Program

PA AEPS Tier II Credits – Energy Efficiency

AEPS Program

The [Pennsylvania Alternative Energy Portfolio Standards Program](#)(AEPS) requires electric utilities and electric suppliers to purchase a percentage of alternative energy resources to meet annual AEPS compliance. The utilities and suppliers meet their AEPS percentage requirements by purchasing alternative energy credits (AECs) from qualified alternative energy systems.

AECs

An AEC is created for each 1,000 kWhrs or 1 MWh of electricity produced or saved from a qualified source. The AEC can then be sold or traded. AECs are bought and sold on an open market, and [AEC prices](#) are determined by supply and demand. AEC prices do fluctuate in value. AECs are eligible to be transacted up to 3 years after issuance.

Eligibility

Energy efficiency improvements such as lighting retrofits, HVAC upgrades including chillers, efficient motors and VFDs, and certain compressed air and refrigeration projects can apply to earn Tier II AECs. Tier II AECs for energy efficient measures are generated based on the savings between an inefficient technology and the new efficient technology. The eligibility period for energy efficiency measures varies by measure and could generate Tier II AECs for up to 15 years.

Apply

Facility owners or their representatives can apply to the AEPS Program through the PA AEPS Program Administrator’s website, [PennAEPS](#). If the facility has received a rebate from their utility, the facility can provide the utility savings document or energy audit with the application. The Program Administrator will review the application and issue an AEPS certification number and Tier II AEC generation schedule.

Receive AECs

After an AEPS certification number is issued, the facility owner or their representative registers an account in [PJM-GATS](#) where the AECs are created and transacted. The facility enters monthly savings from the savings schedule into the platform. Once a month, the platform issues Tier II AECs which can then be transacted.

Tier II AEC Market & Pricing

Facilities often utilize a [broker](#) or [aggregator](#) to manage the entry of savings into the [PJM-GATS](#) and transact the selling of Tier II AECs for a commission. Pricing for Tier II credits varies. The average price per Tier II AEC for 2025 was \$26.92 and can trade up to \$45. Historical pricing is available on the [PennAEPS](#) website.

Example

A warehouse completes a lighting retrofit with an annual savings of 500,000 kWh. An AEPS certification and a generation schedule is issued for 42 Tier II AECs per month to total 500 Tier II AECs annually:

$$500 \text{ Tier II AECs} * \$26.92 \text{ average Tier II AEC price for 2025} = \$13,460$$



To learn more about the AEPS, contact us at [877-333-0573](tel:877-333-0573) or customerservice@pennaeps.com.