

A wide-angle photograph of the St. Louis skyline at night, featuring the Gateway Arch and several illuminated skyscrapers. The scene is reflected in the water in the foreground. The image has a blue color overlay.

Federal & State Funding Opportunities for Energy Efficiency

Prepared for:

Electrical Board of
Missouri and Illinois
Energy Efficiency
Symposium
Workshop 2024

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AGENDA

Active, Broadly-Available Programs

Honorable Mentions

On the Radar

Q&A

Disclaimer

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RURAL ENERGY FOR AMERICA PROGRAM (REAP)

- **Targeted Customers:** Agricultural producers and small businesses in rural areas
- **Program Provides:** Guaranteed loan financing and grant funding for energy efficiency improvements and renewable energy systems
 - Grants for up to 50% of eligible project costs, and loan guarantees (or combined) up to 75% of project costs
 - Energy efficiency grant terms: \$1,500 - 500,000
- **Status:** Application window open, with upcoming review periods: March 31, June 30, and Sept 30
- **Key requirements:** EE projects require an energy audit or assessment, and all projects require environmental review prior to award or construction
- **Next Steps:** Contact your state Rural Development Coordinator

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INDUSTRIAL ASSESSMENT CENTERS (IAC)

- **Targeted Customers:** Small- to medium-sized manufacturers; limited opportunity for commercial facilities for select IACs (including MU & UIC)
- **Program Provides:**
 - No-cost, in-depth energy assessments
 - For limited time, implementation grants of up to \$300,000
 - Bonus: Workforce development & recommendations database
- **Status:** Accepting applications now, reviewed quarterly as funds are available
- **Key requirements:** In order to receive implementation funding, site must have received a qualifying assessment; 50% cost-share for implementation grants
- **Next Steps:** Contact (or encourage or eligible customers to contact) your local IAC



EXTENDED PRODUCT SYSTEMS

- **Targeted Customers:** Owners of industrial or manufacturing facilities, commercial buildings, or an energy service company that purchased or installed a qualified extended product system
- **Program Provides:**
 - Rebate (processed via online portal) of \$25/hp for qualifying systems installed after January 1, 2021
- **Status:** Accepting applications now, available until funds are expended
- **Key requirements:** Eligible extended product systems must contain an electronic motor and an electronic control that:
 - Offers variable speed or multispeed operations,
 - Offers partial load control that reduces input energy requirements,
 - Has a rating greater than 1 hp, and
 - Uses controls that automatically adjust the electric motor speed by differential pressure, flow, temp, or other control variable
- **Next Steps:** Apply online or encourage your customers to do so:
<https://doerebates.my.site.com/rebates/s/>

Table 1: Pump Qualifying Criteria

| Equipment Class | Maximum PEI _{VL} | Minimum ER |
|-----------------|---------------------------|------------|
| ESCC.1800.VL | 0.48 | 52 |
| ESFM.3600.VL | 0.46 | 54 |
| ESFM.1800.VL | 0.46 | 54 |
| ESFM.3600.VL | 0.48 | 52 |
| IL.1800.VL | 0.46 | 54 |
| IL.3600.VL | 0.45 | 55 |
| RSV.1800.VL | 0.46 | 54 |
| RSV.3600.VL | 0.43 | 57 |
| ST.1800.VL | 0.53 | 47 |
| ST.3600.VL | 0.53 | 47 |

Table 2: Air Compressor Qualifying Criteria

| Equipment Class | Minimum Package Isentropic Efficiency |
|--|--|
| Rotary, lubricated, air-cooled, variable-speed compressor | $\eta_{Regr} + \frac{1 - \eta_{Regr}}{20}$ |
| Rotary, lubricated, liquid-cooled, variable-speed compressor | $0.02349 + \eta_{Regr} + \frac{1 - \eta_{Regr}}{20}$ |

Table 3: Fan Qualifying Criteria

| Fan Equipment Family | Minimum FEI |
|--------------------------|-------------|
| Axial inline fan | 1.20 |
| Centrifugal housed fan | 1.15 |
| Centrifugal unhoused fan | 1.25 |
| Centrifugal inline fan | 1.10 |
| Axial panel fan | 1.25 |
| PRV | 1.10 |
| Radial housed fan | 1.15 |

EE COMMERCIAL BUILDINGS DEDUCTION

- **Targeted Customers:** Owners of qualified commercial buildings and designers of energy efficient retrofit or commercial buildings property owned by specific tax-exempt entities
- **Program Provides:**
 - Tax deductions for eligible entities for the installation of energy efficient systems, including interior lighting, HVAC and hot water, and building envelope
- **Status:** Available now
- **Key requirements:** Buildings within the scope of a specified Reference Standard ASHRAE 90.1 must achieve annual energy and power cost savings of 25% or more in comparison to a reference building meeting the minimum standard requirements of Reference Standard 90.1.
 - Prevailing wage and apprenticeship bonus
- **Next Steps:** Review IRS qualifications or encourage customers to do so <https://www.irs.gov/credits-deductions/energy-efficient-commercial-buildings-deduction>

Amount of the deduction for 2023 and after

For property placed in service in 2023 and after, the deduction for EECBP equals the **lesser** of:

The cost of the installed property
or

The savings per square foot calculated as:

- \$0.50 per square foot for a building with 25% energy savings
 - **Plus** \$0.02 per square foot for each percentage point of energy savings above 25%
 - **Up to** a maximum of \$1.00 per square foot for a building with 50% energy savings
- Expenses deducted in the prior 3 years (4 years for an allocated deduction) reduce the maximum deduction before computing the current-year deduction.

ADDITIONAL TARGETED PROGRAMS FOR CUSTOMER SEGMENTS OF INTEREST:



Assisting Federal Facilities with Conservation Technologies (AFFECT)

Phase 2 funding opportunity will open Spring 2024

<https://www.energy.gov/femp/assisting-federal-facilities-energy-conservation-technologies>



Energy Efficiency Conservation Block Grant (EECBG)

Complete local government applications due by April 30, 2024

<https://www.energy.gov/scep/energy-efficiency-and-conservation-block-grant-program>



Renew America's Schools

DOE anticipates opening a second round of applications in the spring of 2024

<https://www.energy.gov/scep/renew-americas-schools>



Airport Infrastructure Grants

\$9 billion available across the country

<https://www.faa.gov/bil/airport-infrastructure>



Port Infrastructure Development Program

\$450 million available in FY24

<https://www.maritime.dot.gov/PIDPgrants>

LOW-INTEREST FINANCING FOR EE & CLEAN ENERGY PROJECTS



Coming Soon:

- Energy Efficiency Revolving Loan Funds
 - MO: \$9 million
 - IL: \$15 million
- National Clean Investment Fund (\$14B) and Clean Communities Investment Accelerator (\$6B) – recipients to be announced March 2023

Explore new financing partners for your energy projects to benefit from better rates and expanded access

Available Now:

- MO Energy Loan Program
 - Public schools, hospitals, libraries, local governments
 - Loan amounts \$10,000 - \$1M
- IL Energy Loan Program
 - Residential single-family (1-4 unit) homes, condos, and mobile homes
 - Loan Amounts \$500-20,000
- IL Small Business & Multifamily Loan Program
 - Loan amounts \$500 - \$150,000

HOME ENERGY REBATE PROGRAMS

| Type of Home Energy Project | Maximum Allowed Rebate Per Household | | *Maximum Rebated Costs for Home Electrification Project Qualified Technologies | |
|--|--|--|--|-----------------------|
| | Below 80% AMI | Above 80% AMI | Qualified Technology | Maximum Rebated Costs |
| Home EE project with at least 20% predicted energy savings | 80% of project costs up to \$4,000 | 50% of project costs up to \$2,000 (maximum of \$200k for a multifamily building) | ENERGY STAR electric HPWH | \$1,750 |
| Home EE project with at least 35% predicted energy savings | 80% of project costs up to \$8,000 | 50% of project costs up to \$4,000 (maximum of \$400k for a multifamily building) | ENERGY STAR electric heat pump for space heating & cooling | \$8,000 |
| Home electrification project qualified technologies | 100% of project costs up to technology cost maximums*; up to \$14,000 | 50% of project costs up to technology cost maximums*; up to \$14,000 Note: Households with incomes above 150% AMI are not eligible | ENERGY STAR electric heat pump clothes dryer | \$840 |
| | | | ENERGY STAR electric stove, cooktop, range, or oven | \$840 |
| | | | Electric load service center | \$4,000 |
| | | | Electric wiring | \$2,500 |
| | | | Insulation, air sealing, and ventilation | \$1,600 |

Source: Adapted from <https://deq.nc.gov/energy-climate/state-energy-office/inflation-reduction-act-home-rebates>

MO & IL have not yet applied; applications from states to DOE are due January 2025.

On the Radar

EE WORKFORCE DEVELOPMENT

Training and certification programs for auditors, contractors, and other energy professionals → opportunity to recruit from skilled labor pool and up-skill existing staff

CEJA Contractor Programs



Learn about the following CEJA Contractor Programs:

- [Clean Energy Contractor Incubator Program \(CEJA Contractor Incubator Hubs\)](#)
- [Clean Energy Primes Contractor Accelerator Program](#)

For a status of these programs, please visit the [CEJA Program Updates and Status page](#).



\$40 M

To train and certify residential and commercial energy auditors

State applications to DOE due June 28, 2024

\$190 M

To train and certify residential EE and electrification contractors

Awards anticipated to states by end of April 2024

Who We Are

The Missouri Energy Workforce Consortium (MEWC) exists to develop solutions to meet the workforce needs of the state's energy industry. As the energy workforce needs have increased across Missouri, the MEWC is committed to ensuring we are able to meet current and future energy workforce needs.



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QUESTIONS?

