

# 2020

# Energy Efficiency Products



**TRI-STATE**

# Product

# General specifications

# Incentive overview

## Residential

### Residential LED lamps

- LED light bulbs, lamps or fixtures 500 lumens or greater
- Medium, GU24 or other residential/light commercial oriented base
- Multi-LED light sources i.e. rope-light, LED troffers, or under-counter lighting are considered a single fixture

- Lower of \$8/lamp/fixture or 50% of the lamp/fixture cost
- Member-owner account cap of 50 lamps per year
- Each bulb in a fixture will count toward the 50 lamp cap
- Any fixture without a bulb will count as 1 towards 50 lamp cap

### Energy Star® appliances and recycling

- Eligible appliances include: refrigerators, freezers, clothes washers, clothes dryers, dishwashers
- Member-owners may recycle a maximum of 2 refrigerators/freezers per year
- Must be Energy Star® rated. A list of qualifying equipment is available at [www.energystar.gov](http://www.energystar.gov)

- \$30/unit, full size refrigerators or freezers
- \$60/unit for refrigerator/freezer recycling
- \$40/unit for front load clothes washers
- \$30/unit for top load clothes washers
- \$30/unit for clothes dryers (electric only)
- \$90/unit for hybrid heat pump clothes dryers (ventless)
- \$20/unit for dishwashers

### Low income weatherization

- Package may include: insulation, windows/doors, caulking, sealing and weatherstripping

- Member system contribution match of 50% labor/material up to \$500

## Residential & Commercial

### Electric water heaters and heat pump water heaters

GP

- Energy Star® residential unit or any commercial installation
- Minimum size is 30 gallon capacity for all units

- \$30/basic unit, 30 to 55 gallon only, \$20/unit additional incentive for lifetime tank warranty
- \$350/unit for air source heat pump powered, 30 gallon minimum
- \$100/unit for primary heating by direct exchange ground source (aka desuperheater), \$25/unit additional incentive for lifetime tank warranty; any size

### Energy Star® air conditioners

- Minimum equipment size is 1 ton
- A list of qualifying equipment is available at [www.ceedirectory.org](http://www.ceedirectory.org)
- No window units

- \$100/unit split system Energy Star® rated air conditioners from 15 to 16 SEER
- \$150/unit split system Energy Star® rated air conditioners greater than 16 SEER

### Electric thermal storage and thermal slab

GP

- Minimum qualifying load for ETS is 1kW

- \$16/kW for ETS units controlled by timers or master control system
- \$12/kW for thermal slabs controlled by timers or master control system

### Electric heat pump: air source

GP

- Minimum 15 SEER

- \$300/ton for units rated from 15 to 17 SEER
- \$450/ton for units greater than 17 SEER
- \$100/unit additional incentive for central air source with integrated controlled ETS backup in lieu of a separate ETS incentive
- \$85/terminal unit (through-wall mounted heat pumps)

### Electric heat pump: central ground source

GP

- \$500/ton for new installations
- \$250/ton for existing unit replacement

GP Eligible for Green Power Attributes (see next page for more information)

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## Commercial

### Commercial LED lighting

- Includes exterior wall mounted lighting, exterior pole mounted lighting, refrigerated case lighting, and interior lighting
- For both new construction and retrofits
- One project per category, per member-owner account per year

- Pre-set amount by fixture type as outlined in spreadsheet available on the MIC
- Pole mounted lighting cap of \$20,000 or 25% of total LED head cost per project/account
- Refrigerated case lighting cap of \$3,000 or 50% of total LED fixture cost per project/account
- All other retrofit or new construction fixture/bulb types have a combined cap of \$20,000 or 50% of LED fixture cost

### Refrigerated case/walk-in cooler fan motor retrofit

- Applies to medium/low temp reach-in refrigerated cases, multi-deck open cases and walk-in coolers
- For the replacement of evaporator fan motors with Electronically Commutated Motors (ECM) in existing cases or in new cases installed in an existing location
- Permanent installation only
- One project per account location per year

- \$50 per installed motor

### Irrigation motor program

- Motor sizes 10hp to 500hp
- Irrigation motors only
- Refer to table in fact sheet for minimum motor efficiencies
- Operating at minimum of 15% load factor or 3 months per year
- Rewound motors are not eligible

- \$8/hp
- \$1.50/hp wiring assistance if the motor replaces a fossil-fueled engine, or is a new installation

### Variable speed drive (VSD) retrofit

- Motor sizes from 25hp and larger
- Applies to irrigation, farm, commercial and industrial uses
- Only retrofits to existing installations qualify, no new and no maintenance replacements

- Sliding scale from \$1,600 to \$6,800
- Based on motor horsepower
- Cap of 50% of the VSD equipment costs
- Per project cap of \$20,000

### Industrial manufacturing/agricultural processing audits

- Member-owner should have significant energy bills and the capability to move ahead with certain recommendations
- Tri-State can limit participation and audit costs

- Up to 75% funding of audits for industrial and agricultural processing-focused businesses through Tri-State approved/provided auditor
- 1 audit per member system
- Limited funding may be available to implement audit recommendations

## Green Power attributions GP

Green Power attributions can be added on for residential electric vehicle service equipment (EVSE) and for electric water heater, air source heat pump, ground source heat pump, thermal slab or ETS units that are being switched from natural gas, propane, or other non-electric source to an electric unit, or are new construction installations. If selected in the application, Tri-State will retire 5,000 kWh's worth of Renewable Energy Credits (RECs) for each unit purchased on behalf of the consumer. Additional Green Power blocks (REC's) can be purchased by the Member System through Tri-State's Voluntary Green Power program.

## Our purpose

Tri-State's Energy Efficiency Products (EEP) program has been in place since 1985 and is a partnership between Tri-State and our members= systems. It is designed to promote efficient electric products, the wise use of electricity and new electric technologies. Tri-State is working with others to promote beneficial electrification to increase efficiency and productivity, reduce carbon emissions, and enhance safety for Tri-State, our member systems, and their member-owners.

All Tri-State member systems are eligible to participate in the EEP program and they may tailor their offerings to meet specific goals.

## Pilot products

### Electric vehicle charging equipment

GP

#### Level 2, without data and fee collection ability

- For public or private installation
- Tri-State will match member system rebate up to \$500
  - 50% match of EV charging equipment up to \$250
  - 50% match of electric service installation up to \$250

#### Level 2, with data and fee collection ability for public accessible installations

- 50% match of EV charging equipment and electric service installation up to \$1,000

#### Level 3, DC Fast Charge with data and fee collection ability

- 50% match of EV charging equipment and electric service installation up to \$3,000

### Commercial LED T-12 upgrade fixture/bulb

- Increased incentive by fixture type as outlined on the Commercial Lighting Retrofit Form spreadsheet available on the MIC.
- Per rebate type cap of \$20,000
- Only verified T-12 removal and replacement qualifies.

### Outdoor power equipment electrification

#### Electric mower or snow blower

- 25% of cost up to \$100

#### Electric trimmer, chainsaw, pruner, and blower

- 25% of cost up to \$50
- Program cap of \$150,000

### Electrification

This EPRI program covers truck stop/parking electrification, transportation refrigeration unit projects and electric forklifts. Tri-State will rebate up to \$2,500 for truck stop/parking and transportation refrigeration unit projects and will rebate up to \$1,500 for electric forklifts. Overall program cap of \$150,000.

### Energy efficiency pilot

Ideas proposed and submitted by member systems with future benefits to Tri-State and the member systems. Program cap of \$100,000. Funding is at Tri-State's discretion.