



## Glencoe Light and Power Commission Business Rebates – 2020

### Eligibility

1. Rebate applicant must be an electric customer of Glencoe Light and Power Commission.
2. Eligible equipment must be connected to an electric service billed under a commercial or industrial rate class by Glencoe Light and Power.
3. This program is applicable only to equipment that meets the detailed equipment specifications and requirements as described in this application and the terms and conditions below.
4. All equipment must operate a minimum of 1,500 hours per year to be eligible.
5. The installation of energy-efficient equipment must result in a reduction in electric load.
6. If any equipment listed in this program is required by code, the offer of an incentive for such equipment is null and void.
7. All equipment installations must be permanent.

### Terms & Conditions

1. Incentive Offer: Projects, including all required installation, must be completed by December 31, 2019. A signed application and itemized invoices for materials and labor must be submitted to the participating utility at the address indicated within 60 calendar days of project completion.
2. Proof of Purchase: This application must have complete information and be submitted with an invoice(s) itemizing the new equipment purchased and labor costs. **The invoice(s) must indicate date of purchase, size, type, make, model, and total project cost. For lighting, manufacturer (OEM) specification sheets for installed lamps, ballasts, fixtures, sensors, and controls must also be included.**
3. Compliance:
  - a) All projects must comply with federal, state, and local codes.
  - b) All equipment must be new or retrofitted with new components per the program specifications. Used or rebuilt equipment is not eligible for incentives. Existing equipment must be removed and properly disposed of.
  - c) Equipment must meet specification requirements and be purchased, installed and operating prior to submitting an incentive application, unless pre-approval is required. Pre-approval is required for all Custom projects, projects with an estimated rebate greater than \$5,000, and lighting projects with more than 50 lights.
  - d) Customers may only receive one incentive per piece of qualifying equipment.
  - e) Receipt of pre-approval does not guarantee incentive payments will be made. Incentive payments will be made only upon the customer's satisfaction of all terms and conditions of this program.
  - f) All terms and conditions of this application must be satisfied by the customer.
4. Payment: Once completed paperwork is submitted, incentive payments are usually made within 6-10 weeks. Incomplete applications will either delay payments or be denied. Glencoe Light and Power reserves the right to refuse payment and participation if the customer or the customer's contractor violates program rules and procedures.
5. Inspection: Glencoe Light and Power may conduct an inspection of the customer's facility to survey any installed projects. All projects exceeding \$5,000 of incentives require pre-inspection prior to incentive payment. Glencoe Light and Power may inspect customer records relating to incentives sought by the customer.

6. Information Sharing: Glencoe Light and Power reserves the right to publicize your participation in this program, unless you specifically request otherwise in writing. Information contained in this application may be shared with state boards, commissions, and other departments.

7. Program Discretion: Incentives are available on a first-come, first-served basis. This program and its incentive amounts are subject to change or termination without notice at the discretion of Glencoe Light and Power. Neither pre-approval of a project, nor any other action on behalf of Glencoe Light and Power, will entitle a customer to an incentive payment until the application is finally approved by Glencoe Light and Power.

8. Disclaimers:

a) Glencoe Light and Power does not endorse any particular manufacturer, product, labor or system design by offering these programs.

b) Will not be responsible for any tax liability imposed on the customer as a result of the payment of incentives.

c) Does not expressly or implicitly warrant the installation or performance of installed equipment or any contractor's quality of work (contact the equipment manufacturer or contractor for warranties).

d) Is not responsible for the proper disposal/recycling of any waste generated as a result of this project.

e) Is not liable for any damage, injury, or loss of life arising from, or relating to the removal, installation, or operation of any equipment, or any other action taken by the customer or Glencoe Light and Power, in connection with a project undertaken by the customer under the programs described in this application.

f) Does not guarantee that a specific level of energy or cost savings will result from the implementation of energy efficiency measures or the use of products funded under this program.

## Incentive Limit

1. The maximum incentive per project is at the discretion of Glencoe Light and Power and may require approval BEFORE project commencement. Projects exceeding \$5,000 of incentives require pre-approval.

2. Total incentive will not exceed 75% of the project cost, including installation costs by a third party.

3. Incentives for particular items of equipment and/or systems are limited as set forth in this application.

4. Lighting projects not fitting this application or if over 50 total fixtures and/or lamps, will be evaluated and processed on a Custom Rebate form. Glencoe reserves the right at any time to decide if a project will be incentivized as a custom or prescriptive project.

5. Incentive payments are limited to \$25,000 per calendar year per customer.

a) Payments for larger incentives may be allowed at the discretion of Glencoe Light and Power and, if permitted, may be paid in increments over more than one year. Incentives will be paid on a "first-come, first-served" basis.

[Compressed Air](#)  
[Custom Projects](#)  
[LED Lighting](#)  
[Motors, Pumps, and VFD's](#)

\***New Construction** projects are incentivized as Custom projects

# Compressed Air Leak Study and Fixes:

## Eligibility

- 1) Glencoe Light and Power customers are eligible for the Compressed Air Study funding. The frequency of study incentives is at the discretion of Glencoe Light and Power.
- 2) Customer must be in good standing with Glencoe Light and Power in order to participate.

## Requirements

### Compressed Air System Requirements

- 1) Qualifying compressed air systems must meet the following requirements:
  - a) Electrically driven
  - b) Minimum 35 hp, total installed air compressor capacity (excluding backup equipment)
  - c) Operate at least 40 hours per week (2,000 hours per year)
- 2) Glencoe Light and Power funds 50% of the study costs, based on the following maximum guidelines:

<u>Compressor Size</u>	<u>Maximum Funding from Glencoe Light and Power</u>
Less than 35 hp	At the discretion of the utility
35 hp to 74 hp	Up to \$1,500
75 hp to 99 hp	Up to \$2,000
100 hp to 249 hp	Up to \$3,000
Larger than 250 hp	Up to \$4,000

- a) **To qualify for a rebate, 75% of the leaks must be repaired within nine (9) months of the study completion date.**
- b) **Any projects involving new equipment may be eligible for other rebates under the Custom incentive program.**

### Program Participation Requirements

- 1) Contact a compressed air vendor/contractor and request a compressed air study estimate.
- 2) Submit the Compressed Air Study application and proposed cost of the study to Glencoe Light and Power.
- 3) Obtain pre-approval from Glencoe Light and Power's Energy Representative **PRIOR** to proceeding with the study.
- 4) The Compressed Air Efficiency study should include the following:
  - a) An ultrasonic leak survey – locate and attempt to tag air leaks, and estimate the cost of inefficiencies due to system leaks and misuses.
  - b) An efficiency report – system recommendations and estimate of energy cost savings due to each recommendation.

5) The report should attempt to specifically address the following items:

a) Characterize major compressed air system (supply and demand side) components which may include:

- Compressor number, type, capacity, pressure rating and age
- Compressor motor size, efficiency and age
- Type, capacity and age of dryers and other conditioning equipment
- Type of automatic compressor controls, if any
- Description of major compressed air end uses
- Location and layout of piping and major system components
- Inspection of all compressed air system components and identify problem areas

b) Measure or estimate the output of each individual compressor and the overall system in cfm; calculate energy consumption in kWh, and determine the annual cost of operating the existing compressed air system.

c) Provide pressure, flow, and power or amperage results, if available, for a time period sufficient to obtain a good estimate of the system's output and characterizations.

d) Identify results of the leak and unregulated demand inspection.

e) Identify execution steps and provide cost estimates to repair the leaks, unregulated end-uses, and inefficient compressed air applications.

f) Recommendations for improvements to customer's maintenance procedures.

g) Recommendations for follow-up actions to improve operation and efficiency.

## Custom Program Details:

### Application Instructions:

1) **All custom efficiency projects require written pre-approval** (Notice to Proceed) by Glencoe Light and Power before the customer takes any steps to purchase new equipment or systems. This includes any purchase orders, invoices, bills of lading, or other purchase or shipping documents for any equipment, materials, or services relating to the project.

2) This program is offered January 1 through December 31 of the respective calendar year. Due to limited funding, this incentive offer can be changed or withdrawn at any time without notice and is available on a first-come, first-served basis.

3) All sections of the incentive application must be read, completed in its entirety, signed, and submitted to Glencoe Light and Power for pre-approval.

4) Data contained in the application must be sufficient to verify the size, efficiency, costs, assumptions, and calculations for demand and energy savings described in the application. The customer must provide any additional data reasonably requested by Glencoe Light and Power.

**a) The customer must submit copies of all project invoices, specifying materials/equipment purchased (including make, model, size, efficiency rating, etc.), date ordered, installation costs, and disposal costs for old equipment, if applicable.**

5) Demand, energy savings calculations, and assumptions must be certified by a qualified individual representing the customer.

6) Equipment must meet specification requirements and be purchased, installed and operating prior to resubmitting the application for payment.

a) After project completion, the customer must resubmit this application with updated calculations for demand and energy savings within 90 days of completion date.

## Incentive:

1) Glencoe Light and Power offers incentives for the installation of high efficiency equipment or the implementation of process improvements that result in energy savings.

2) The incentive will be based on annual kWh saved.

3) Equipment installations are subject to inspection by utility personnel before and after installation and prior to approval of an incentive.

4) Glencoe Light and Power reserves the right to revise incentive levels and/or qualifying efficiency levels at anytime.

a) Projects that were pre-approved prior to the effective date of changes will be eligible for the incentive amount at the time the application was filed or for the new incentive amount.

b) Projects that have not been pre-approved prior to the date of changes to the incentive will be eligible for the new incentive amount only.

5) The customer assumes all responsibility for any tax consequences resulting from an incentive payment under this program.

6) Glencoe Light and Power reserves the right to limit any incentive amount or make adjustments to correct incentive calculations or assumptions, at its discretion.

7) Glencoe Light and Power reserves the right to disqualify any type of equipment from this program.

8) Incentive payments are limited to \$25,000 per calendar year per customer under the Custom Program.

a) Payments for larger incentives may be allowed at the discretion of Glencoe Light and Power and, if permitted, may be paid in increments over more than one year. Incentives will be paid on a "first-come, first-served" basis.

9) The minimum incentive application is \$500.

10) Customers may not receive more than one incentive for each piece of equipment installed under this program.

## Eligibility:

- 1) Back-up or redundant equipment does not qualify.
- 2) Products required by code do not qualify.
- 3) Project must result in reduced energy use due to improvement in system efficiency or control upgrades.
- 4) Projects involving fuel switching do not qualify.
- 5) Projects involving operational or settings changes with no capital cost do not qualify.
- 6) Power generation projects do not qualify.
- 7) Peak shifting or load shedding projects do not qualify.
- 8) Renewable projects do not qualify.
- 9) Projects shall provide savings to the utility for the life of the equipment. If the applicant ceases to be a customer of the utility, or the equipment is removed prior to the end of the useful life of the equipment, the applicant may be required to return a prorated amount of the incentive, if requested by the utility.

## LED Lighting Details:

### Disposal vs. Recycling

Most light bulbs used by businesses contain mercury, including fluorescent tubes and high-intensity discharge (HID) lamps. Even though today's fluorescent and HID lighting contains a small amount of mercury, the cumulative volume of mercury contained in lamps is still significant. Mercury released from broken lamps becomes atmospheric mercury that is then deposited in lakes and builds up in fish. Disposing of these lamps in the trash is prohibited by federal regulations.

Some brands are marketed as low-mercury, and may be marked with green end caps. It is still a good idea to take these low-mercury tubes to a recycling center because they do contain some mercury and the glass, as well as other metals, will be recycled.

Most recyclers require that the bulbs be counted and if possible, boxed. The bulbs are not to be taped together or shrink wrapped. Banding them together with a rubber band at both ends is acceptable. Materials that are not designated as hazardous waste may be disposed of in the trash or at the landfill.

### Disposal and Recycling Information

Contact your local county landfill or waste management provider for more information. Or, to find a recycling service near you, [log on to www.local.com](http://www.local.com) and search on "bulb recycling" along with your city and state.

## Motors, Pumps, and VFD Details:

<b>NEMA Premium Motor Nominal Efficiency Requirements</b>						
<b>HP</b>	<b>Open Drip-Proof (ODP) 600 Volts or Less</b>			<b>Totally Enclosed Fan Cooled (TEFC) 600 Volts or Less</b>		
	<b>1200 RPM</b>	<b>1800 RPM</b>	<b>3600 RPM</b>	<b>1200 RPM</b>	<b>1800 RPM</b>	<b>3600 RPM</b>
1	82.5	85.5	77	82.5	85.5	77
1.5	86.5	86.5	84	87.5	86.5	84
2	87.5	86.5	85.5	88.5	86.5	85.5
3	88.5	89.5	85.5	89.5	89.5	86.5
5	89.5	89.5	86.5	89.5	89.5	88.5
7.5	90.2	91	88.5	91	91.7	89.5
10	91.7	91.7	89.5	91	91.7	90.2
15	91.7	93	90.2	91.7	92.4	91
20	92.4	93	91	91.7	93	91
25	93	93.6	91.7	93	93.6	91.7
30	93.6	94.1	91.7	93	93.6	91.7
40	94.1	94.1	92.4	94.1	94.1	92.4
50	94.1	94.5	93	94.1	94.5	93
60	94.5	95	93.6	94.5	95	93.6
75	94.5	95	93.6	94.5	95.5	93.6
100	95	95.4	93.6	95	95.4	95
125	95	95.4	93.6	95	95.8	95
150	95.4	95.8	95	95.8	96.2	95.4
200	95.4	95.8	95	95.8	96.2	95.8

<b>High Efficiency Pump Requirements</b>	
<b>Horsepower</b>	<b>Pump Efficiency*</b>
1.5	Efficiency of 73% or more
2	Efficiency of 73% or more
3	Efficiency of 73% or more
5	Efficiency of 73% or more
7.5	Efficiency of 73% or more
10	Efficiency of 75% or more
15	Efficiency of 77% or more
20	Efficiency of 77% or more

\*Pump Efficiency represents the efficiency at the design point on the pump curve

### **Required Attachments:**

1) Invoice clearly showing proof of purchase including date purchased, model numbers and cost. If contractor installed, please include installation date, address, and total project cost.

### **Guidelines:**

- 1) VFD's used to replace existing or failed VFD's do not qualify for incentives.
- 2) This incentive is for VFD's used on process pumps, HVAC pumps, and HVAC fans only. All other VFD's can be processed through the Custom rebate form.
  - a) Examples include VFD's used to control the following: HVAC fans, boiler draft fans, cooling tower fans, chilled water distribution pumps, and hot water distribution pumps.

### **HVAC FANS:**

- 1) Incentives for VFD's used to control HVAC fans are only offered for VFD's installed on existing HVAC fans up to 150 horsepower. Larger horsepower motors may be incentivized through the Custom Program.
- 2) Incentives are not offered for VFD's on new installations of HVAC fans.

### **HVAC PUMPS:**

- 1) Incentives for VFD's used to control HVAC pumps are limited to the following horsepower ranges:
  - a) For new HVAC pumps - only VFD's used to control motors 1 - 50 horsepower are eligible.
  - b) For existing HVAC pumps - only VFD's added to control motors 1 - 150 horsepower are eligible.
    - i) Larger horsepower motors may be incentivized through the Custom Program.

### **PROCESS PUMPS:**

- 1) Incentives for VFD's used to control process pumps are limited to the following horsepower ranges:
  - a) For new process pumps - only VFD's used to control motors 1 - 50 horsepower are eligible.
  - b) For existing process pumps - only VFD's added to control motors 1 - 150 horsepower are eligible.
    - i) Larger horsepower motors may be incentivized through the Custom Program.
- 2) VFDs must be automatically controlled by a variable signal, and have load diversity that will result in savings through motor speed variation.
- 3) Qualifying projects must have a true power factor of 90% or greater and should include a line reactor between the power source and the drive with a reactor rating of not less than 3% impedance of the VFD rating.