

NON-RESIDENTIAL PROGRAM

OVERVIEW



WELCOME!

Thanks for your interest in the non-residential energy conservation program. This program was designed to be flexible enough to meet the needs of small and large commercial customers, agricultural customers, industrial customers, and institutional customers like schools and governments.

The program provides rebates for projects with verifiable electric energy savings. Rebate amounts are calculated based upon annual kilowatt-hours saved, at the rate of \$0.17/KWh, up to 70% of project cost. Eligible projects must have a simple payback analysis of one year or more (without the effect of the rebate).

Important Note: All projects must be pre-approved and a formal application must be on file prior to the ordering of materials or the start of work to qualify for the PUD rebate programs. When considering potential energy conservation measures, it is never "too early" to contact the PUD. Please allow several weeks for the pre-approval process after all project information has been submitted. Projects must be completed within 90 days of pre-approval to receive rebate. Exceptions may be made for projects with unusually long lead times, provided the request for extension is made at the time of application. Pre-approved projects will have funding reserved in the annual budget for commercial energy conservation. Once the annual budget is exhausted, no more projects will be approved.

Standardized Formulas have been developed to determine rebates for most lighting projects and some HVAC projects.

All projects must conform to local building, mechanical, electrical, fire, energy, ventilation, and environmental codes to be eligible for a rebate. Project materials must also meet the District's and regional conservation specifications and requirements.

If you have questions after reviewing this information, or would like a no-cost site visit to help identify potential energy saving opportunities, call us at (360) 538-6383 and we'll be happy to provide whatever assistance we can.

Grays Harbor PUD reserves the right to revise program rules and guidelines, including discontinuing all or part of the available incentives, at any time and without prior notice.
All projects, once approved, will be subject to the guidelines in place at the time of approval.

NON-RESIDENTIAL REBATE APPLICATION



NOTE: PROJECT MUST BE PRE-APPROVED PRIOR TO ORDERING OF MATERIALS OR START OF WORK

PO Box 480
Aberdeen, WA 98520
Fax: (360) 538-6389

Business/Contact Information:

Name of Business: _____

Mailing Address: _____
Street City, State Zip

Physical Address (if different): _____
Street City Zip

Contact Person: _____

Phone #: _____ FAX #: _____

Grays Harbor PUD Account #: _____

Project Description:

Total Project Cost: \$ _____

Total Estimated Annual Energy Savings: _____ kWh

Please calculate rebate for me (necessary documentation attached).

Type of Project:

Lighting Motors (VFD's, efficiency upgrades, etc.)
 Heating, Ventilating, Air Conditioning Other (describe)

Please attach documentation that describes your project as completely as possible. Attach documentation to support project cost and energy savings estimates (see guidelines).

Please read the following statement and sign below.

I understand that I am applying to receive funds from Grays Harbor PUD as an incentive for conservation projects that I intend to implement at my place of business. I understand that the PUD views this incentive as a long-term investment in resource conservation. I therefore agree to:

- Conform to all codes and regulations, and leave the project in place for a period of at least three years from the date of project completion.
- Provide all necessary maintenance and repairs to ensure that energy savings continue to accrue for at least three years from the date of project completion.

Authorized

Signature: _____ Date: _____

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TIPS ON APPLYING FOR REBATES & ESTIMATING ENERGY SAVINGS



Rebate amounts in the commercial, agricultural, and industrial conservation programs are based solely on annual electric energy savings. All projects that save electricity are eligible for consideration. In general, a customer should follow these steps to apply for a rebate through the PUD's program.

- Identify projects with potential energy savings.
- Estimate the energy savings using one of the methods described below.
- Contact the PUD at (360) 538-6383 to arrange for a pre-project inspection and approval.
- Submit the information to the PUD on the application form provided. You'll need to provide enough information for us to check your savings estimates (e.g., for a lighting project, we'll need to know the number and type of fixtures, as well as the annual operating hours).

After we receive your application, we'll review it to determine if further verification of the energy savings will be necessary, and we'll let you know how much of a rebate you qualify for. Any cost incurred for additional verification is considered part of the cost of the project, and is the responsibility of the customer.

Energy Savings Estimation Methods

Direct calculation (spreadsheet) - This method is valid for projects where power draw and annual hours of use are easily determined. For example, a display sign upgrade would use the following formula to calculate energy savings.

$$\frac{(\text{old sign wattage} - \text{new sign wattage}) \times \text{annual hours of operation}}{1000}$$

Computer-Based Energy Modeling - This method is appropriate for HVAC, daylight harvesting, and building envelope improvement projects, where energy use is dependent on weather and building operating conditions. Trained individuals using industry-accepted software should perform energy modeling. HVAC contractors and energy consultants are good candidates to help you with this task.

Standardized Formulas - Where direct calculation or energy modeling is impractical, the best means of estimating energy savings is by using standardized formulas for the type of project being considered. We have developed some standardized formulas that are included in this packet, others are available from equipment vendors (for example, lighting consultants may use the regional Commercial/Industrial Lighting Offer); please check with us to see if we have new standardized formulas for other project types.

NOTE: It is the customer's responsibility to estimate energy savings. Some assistance may be available on a limited basis from the PUD, depending on demand. Contact us at (360) 538-6325 for details.

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NON-RESIDENTIAL PROGRAM

GUIDELINES



The non-residential program (including agricultural, commercial, industrial, and institutional customers) will provide financial incentives for the installation of energy conservation measures (ECM's) with verifiable electric energy savings. All ECM's will be considered on a case-by-case basis. The following general guidelines will apply to all ECM's:

- All projects must be pre-approved prior to ordering of materials or start of work (including removal of existing equipment or lighting fixtures).
- All retrofit projects must meet or exceed the current Washington State Energy Code and the Energy Policy Acts of 1992 & 2005. Variances or "grandfather rights" granted by local building officials does not constitute code compliance.
- In new construction projects, funding will not be provided for measures that are required to meet the Washington State Energy Code or the Energy Policy Act. All construction completed or installed after January 1, 2000 is considered new construction for the purpose of this program.
- Savings projections are the responsibility of the customer, and they must be measurable and verifiable. Standard engineering practices should be used to estimate annual electricity savings (see "TIPS ON APPLYING FOR REBATES & ESTIMATING ENERGY SAVINGS").
- Measurement and verification are the responsibility of the customer, and are subject to review by the PUD and/or its designated representative.
- All projects that save electricity are potentially eligible. Projects that combine savings from other fuel sources (e.g., natural gas) in addition to electricity may be funded, but only that portion of the project that saves electricity will be considered in determining funding amounts.

The following additional guidelines will apply to all lighting ECM's.

- All lighting measures and equipment must meet current regional standards for the Bonneville Power Administration's Commercial / Industrial Lighting Offer.
- Many area lighting suppliers and contractors are members of the Northwest Trade Ally Network (TAN) and can provide assistance in identifying conservation measures. See www.northwest-lighting.org for more details.
- Large lighting projects (over 100,000 kWh annual savings) may be submitted as custom proposals under the Verifiable Savings Program. Please be aware that this will add a considerable amount of time to the pre-approval process.

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NON-RESIDENTIAL PROGRAM

HVAC SYSTEMS



This Heating, Ventilation and Air Conditioning rebate program was designed to be flexible enough to meet the needs of small and large commercial customers, industrial customers, and institutional customers like schools and governments. It is not designed to replace the services of design professionals in new construction or large facilities.

To qualify for a non-residential rebate, buildings primarily heated with electric heat must include heat pumps in the retrofit. **All projects must conform to current Washington State Energy Code requirements (including economizer) to be eligible for rebate.**

Non-Residential HVAC Rebates

Project Type	Minimum	Rebate Amount
Air Source Single Package Heat Pump or Air Conditioner 20,000 to 65,000 BTUH	14.0 SEER (And 8.0 HSPF for Heat Pump)	\$200/ton X $\frac{\text{Actual SEER}}{\text{Minimum SEER}}$
Air Source Split System Heat Pump or Air Conditioner 20,000 to 65,000 BTUH	14.0 SEER (And 8.5 HSPF for Heat Pump)	\$200/ton X $\frac{\text{Actual SEER}}{\text{Minimum SEER}}$
Air Source Heat Pump or Air Conditioner 65,001 to 135,000 BTUH	11 EER or 11.4 IPLV (And 3.4 COP for Heat Pump)	\$200/ton X $\frac{\text{Actual EER}}{\text{Minimum EER}}$
Air Source Heat Pump or Air Conditioner 135,001 to 240,000 BTUH	10.8 EER or 11.2 IPLV (And 3.2 COP for Heat Pump)	\$200/ton X $\frac{\text{Actual EER}}{\text{Minimum EER}}$

1. ARI rated cooling capacity will be used to determine tonnage. 1 ton = 12,000 BTUH.
2. Single Package units require economizers to be eligible for rebate.
3. HVAC system rebates are limited to 50% of actual project cost.
4. Air Source Heat Pump (over 65,000 BTUH) COP at ARI 47°F outside air conditions.
5. IPLV ratings are only applicable to equipment with capacity modulation.

Economizer Rebates

Rebates are provided for installing new economizers on split system heat pump or split system air conditioning systems in existing buildings built prior to January 1, 2005, provided that an economizer was not required on the original installation by the Washington State Energy Code in effect at the time of construction. Rebate amount is \$100 per ton, limited to 50% of actual economizer system installed cost.

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NON-RESIDENTIAL PROGRAM VERIFIABLE SAVINGS PROGRAM



The program provides rebates for any project with verifiable electric energy savings, including large HVAC or refrigeration projects. Rebate amounts are calculated based upon annual kilowatt-hours saved, at the rate of \$0.17/KWh, up to 70% of project cost.

Eligible projects must have a simple payback analysis of one year or more (without the effect of the rebate). An example of a simple payback analysis:

$$\frac{\text{Total Incremental Project Cost (\$)}}{\text{Annual Energy Savings (\$/ year)}} = \text{Simple Payback (years)}$$

Verification of savings shall be by computer-based energy modeling, prepared by a Professional Engineer, Professional Architect, BPA Certified Energy Auditor, or by actual monitoring of electrical consumption on individual equipment, using methods approved in advance by the PUD. Other methods of estimating electric energy savings may be approved on a case-by-case basis.

Verification is the responsibility of the customer. Some assistance may be available on a limited basis from the PUD, depending on demand. Contact us at (360) 538-6325 for details.

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