

HEAT PUMP PROGRAM DESCRIPTION

The mild Pacific Northwest climate provides ideal conditions for high-efficiency heat pumps. Heat pumps can deliver more heat or cooling benefits to your home using the same amount of electricity. Heat pumps also provide the following benefits:

- Saves energy and saves money – For homes currently heated with electricity, a new energy efficient heat pump can reduce your energy use for heating by as much as 30%.
- Increased comfort - Heat pumps can deliver constant, even temperatures and balance humidity in your home.
- Reliable performance - With routine maintenance, heat pumps are typically durable and highly reliable. Not only are utility specified heat pumps energy efficient, their installation is also tested to ensure the highest quality for a long service life.

This technology offers an energy-efficient alternative for people seeking to heat and cool specific areas of their home. It's less expensive, more energy efficient, and cheaper than installing other types of systems.

ELIGIBILITY

- Homes must be electric customers of EPUD.
- Existing heating type must comply with the requirements of the specific heat pump program
 - For Ductless Heat Pump programs, homes must have permanently installed electric zonal heat such as baseboards, wall, or ceiling heat.
 - For Ducted Heat Pump programs, all homes are eligible regardless of existing heating type.
- Signature of the home owner is required on the Customer Participation Agreement.
- Loan eligibility is determined by First Tech Credit Union.

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Heat pumps must be ENERGY STAR rated and installed to Performance Tested Comfort Systems (PTCS) standards to qualify for the program. Below is a summary of requirements, loans and incentives available through EPUD:

Type	HSPF	SEER/COP	Max. Loan	EPUD Incentive
PTCS Ducted Heat Pump Upgrades For homeowners to install a high-efficiency heat pump when replacing an existing heat pump or installing a heat pump in a home that previously had zonal electric heat.	9.0	14	\$7,500	\$ 800
PTCS Ducted Heat Pump Conversions For homeowners to install a high-efficiency heat pump to replace existing electric forced-air furnace.	9.0	14	\$7,500	\$1,900
Ductless Heat Pump (DHP) Conversions For homeowners to install a split system heat pump employing outdoor compressor units with variable-speed indoor blowers and installed according to manufacturer specifications by a contractor who attended a Northwest Ductless Orientation.	<i>Any NW Ductless Approved Equipment</i>		\$7,500	\$1,000
Ground Source Heat Pump	N/A	COP of 3	\$7,500	\$2,000

STEPS FOR PARTICIPATION

Please call Emerald Energy Services at 541-746-1583 if you have questions during the process. All required forms are available at <http://www.epud.org>.

1. An EPUD Energy Analyst may visit your home to determine the current insulation levels. If your home needs additional insulation as outlined in the “Minimum Insulation Requirements”, you will need to have this done to become eligible for the heat pump program. Additional incentives may be available from EPUD to help weatherize your home to a minimum standard.
2. Return a completed Customer Participation Agreement.
3. Contact an EPUD listed Registered HVAC Contractor dealers for bids. A list is enclosed.
4. If you want to apply for the zero-interest loan, complete the First Tech Credit Union loan application and submit it, along with the \$7 fee, directly to the Credit Union.
5. Send a copy of the bid, EPUD’s Heat Pump Proposal form, and all supporting technical documentation completed by the contractor and signed by you, to EPUD for pre-authorization of the work. Do not sign a contract with the HVAC contractor until the loan is approved and EPUD has authorized the work. EPUD will work with the contractor before authorizing the work to ensure that the heat pump system meets our requirements.
6. After you receive Incentive Authorization from EPUD and/or loan approval from First Tech Credit Union, you can sign a formal contract with the weatherization contractor and schedule the installation.
7. Upon completion of the project, EPUD will do a field inspection to verify system components. A copy of the final invoice listing the heat pump type and model number, the air handler type and model number, and thermostat type and model number, is required. EPUD will process your loan and rebate after the inspection is complete and the system approved.

INCENTIVES ARE SUBJECT TO EPUD PREAPPROVAL, INSPECTION, &
WORK MUST COMPLY WITH ALL PROGRAM REQUIREMENTS.

MINIMUM INSUALTION REQUIREMENTS

An EPUD Energy Analyst will perform an energy audit of your home and determine if insulation upgrades are needed. Where feasible, the following requirements will apply:

- ATTIC: The attic should be increased to an R-value approaching R-49.
- WALL: If the wall cavity is R-0, is should be insulated to at least R-11
- FLOOR: The floor shall be upgraded to R-30, or the maximum level needed to fill the floor joist cavities.
- DUCTS: If the ducts are insulated to less than R-8, they should be upgraded to R-11

ADDITIONAL REQUIREMENTS

- For ducted systems, 75% or more of ductwork must be located outside of the conditioned space.
- All heat pump installations shall have either a soft-start capacitor or scroll compressor.
- UL listed Carbon Monoxide (CO) detectors are required in homes whenever combustion appliances are located within a conditioned space. Combustion appliances include wood or pellet stoves, fireplaces, gas appliances, propane appliances, etc.

DUCT SEALING & SYSTEM COMISSIONING

As part of the heat pump installation, all ductwork shall be tested and sealed by the contractor to PTCS standards. CheckME! or PTCS certification is required for the heat pump program.

EPUD ENERGY EFFICIENCY LOAN PROGRAM

You can borrow up to \$7,500 at zero-interest toward the purchase of a heat pump (including duct sealing) through First Tech Credit Union. The loan can be repaid over five years. Simply complete the loan application and return it to First Tech in the envelope provided. Also, if your home needs insulation upgrades, an additional \$4,000 is available at zero-interest.

ADDITIONAL TAX CREDIT INFORMATION

	Federal	State
For home owners:	www.energystar.gov Search tax credits	www.oregon.gov Search residential energy tax credits
For rental properties: Home owners must include a completed W-9 form to EPUD.	www.energystar.gov Search tax credits	Search business energy tax credits