



Norris Public Power District

2012 Residential Rebate Programs

- Residential High Efficiency Heat Pump Rebates
- Residential Electric Resistance Heating Rebates
- Residential Water Heating Rebates
- Residential Cooling System Tune-Up Rebates
- Attic Insulation Rebates

ENERGYWISE
Use less. Spend less. Do more.

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2012

Residential High Efficiency Heat Pump Incentive Program

High Efficiency Heat Pump - Incentives			
System Type	Incentive Criteria – ENERGY STAR Qualified	Who Gets the Incentive	Incentive Amount
Air Source HP	14 SEER & 8.2 HSPF	Homeowner	\$ 100
Air Source HP	15+ SEER, 12.5 EER, 8.5 HSPF	Homeowner	\$ 300
Water or Ground Source HP	Any EER	Homeowner	\$ 400
- For Dealer (installation contractor) Only -			
ENERGY STAR Qualified HP Installation	Operates within 10% of Mfg. Specifications	Dealer	\$ 50

OR

A 2.5% loan for the heat pump system through the Nebraska Energy Office's "Dollar and Energy Savings Loan Program" for your new qualifying system

An AHRI Certificate is required for all 15+ SEER equipment that meets the requirements in the table above. If an AHRI Certificate is not attached to the verification form, the maximum incentive will be \$100.00.

Qualifying systems include:

- New Construction (only eligible for the incentive from Norris, not the 2.5 %loan)
- Conversions (to electric heat from a fossil fuel heating system)
- Upgrades (existing heat pump to a new heat pump)
- For air source heat pumps, the back-up fuel source can be either electric or fossil fuel.

2012 RESIDENTIAL ELECTRIC HEAT AND WATER HEATING INCENTIVE PROGRAM

ELECTRIC RESISTANCE RESIDENTIAL HEATING (Whole House)	
Furnace, Cove, & Baseboard**	
\$150	

**Rebate is available only if gas/propane furnace is replaced or if it is a brand new system, and it must heat the entire home.

RESIDENTIAL WATER HEATING	
Resistance***	Integrated Equipment, Stand Alone Heat Pump Water Heater, or Desuperheater***
\$100	\$100

***Water heater must be a 40 gallon unit or larger. Water heater credits will be awarded at 100% for the first unit installed and 50% for each additional unit installed.

Rebates are for new equipment, equipment conversion from fossil fuel or replacement of electric equipment to a more efficient unit.

A receipt showing proof of purchase must accompany each application form. Rebates will be issued as a credit on a Norris Public Power District customer's account, not as a check.

For program compliance questions or concerns, contact
Norris Public Power District at (402) 223-4038

2012 Residential High Efficiency Heat Pump Program Guidelines

The following guidelines will generally apply. Exceptions will be handled on a case-by-case basis.

1. All HVAC equipment must be permanently installed in a residential single-family dwelling. A mobile home must be on a permanent foundation.
2. Qualifying equipment is AHRI listed with a indoor and outdoor unit combination that meets the minimum requirement of 14.0 Seasonal Energy Efficiency Ratio (SEER) and 8.5 Heating Seasonal Performance Factor (HSPF), or higher. This is the minimum efficiency level for both the homeowner and dealer (installing contractor) incentive.
3. An incentive payment will be paid to the owner of a residence after the equipment is installed, operating, and a performance verification has been submitted by the dealer. No incentive(s) will be paid without the completion of the application form, which requires that a performance verification be conducted on the system. The application form must then be signed by both the dealer (often individual (employee) who performed the verification) and the homeowner. This form will then be submitted to Norris Public Power.
4. If the system is operating within 10% of manufacturers specifications for the test conditions, the system is assumed to be installed and operating correctly – thus “passes.” For systems that pass, both the homeowner and the dealer are eligible for the incentive. If the system is not operating within 10% of manufacturers specifications, it does “not pass”, which may be the case with some existing home installations. In these situations, the homeowner is still eligible for their incentive as they chose higher efficient equipment, but the dealer is NOT eligible for their incentive.
5. The incentive payment to the homeowner will come directly from Norris Public Power District. The incentive payment to the dealer will come from Nebraska Public Power District as they will be paid once a month for the qualifying systems that have been submitted through the local electric utilities. Accompanying the check will be a report providing information about the qualifying system information, such as; customer name, address, and electric utility involved, etc.
6. Low Interest Loan - For homeowners who choose this option (instead of the incentive) – the program is administered through the Nebraska Energy Offices – Dollar and Energy Savings Loan Program. Qualifying equipment, in addition to the heat pump, can include: furnace (regardless of fuel source - electric or fossil fuel), programmable thermostats, and associated wiring, and ductwork that may be required with the installation with the new heat pump.

NOTE – homes built within the last 5 years are not eligible for the low interest loan, but they are eligible for the incentive.

Eligibility is dependent upon meeting the requirements of the Dollar and Energy Savings Loan Program (equipment minimums):

- Air source heat pump - 15.0 SEER, 12.5 EER, and 8.5 HSPF
 - Back-up furnace options:
 1. Electric – any model
 2. Natural Gas or Propane – 90% AFUE or more
 - Note – must install a new heat pump for a fossil fuel furnace to be eligible for this loan.
- Ground Water heat pumps – 16.2 EER and 3.6 COP
- Thermostats -Heat Pumps with electric back up (furnace) must be installed with a ramp-up type thermostat especially designed to bring on backup heat in stages

For more information go to www.neo.ne.gov (Dollar and Energy Savings Loan)

Performance Verification - (with a low interest loan). Either the customer or the installing contractor can request that a performance verification be conducted on the installation. The High Efficient Heat Pump Verification application will be used to submit the results of the verification test. The application must mark "low interest loan" as the customer is only eligible for either the loan or incentive. If the application is completed with the verification results, signed by both the homeowner and contractor and is operating within 10% of manufacturers specification, the contractor will be paid an incentive of \$50.

7. Multifamily structures that are separately metered, they will be considered residential, thus requiring two separate applications. If they are master metered, they are eligible for incentives under the Commercial HVAC Program.
8. "New" refers to new construction with new equipment.

"Conversion" means that the primary source of heat had been a fossil fuel system.

"Upgrades" refers to the installation of new equipment in which the system being directly replaced is currently a heat pump.
9. In those cases where combinations of two or more heat pumps are installed in the same house, both or all are eligible for the full incentive amount. The dealer is also eligible for their incentive if the system qualifies and passes.
10. To be eligible for an incentive, a cottage/cabin must be heated during the winter months of October through May.
11. If electricity is the primary source of heat for a residence, the use of solar panels, wood stove or fireplace will not affect the eligibility for an incentive payment.
12. Additions and supplemental systems are not eligible for incentive payments unless they are large enough for their own dedicated heating and cooling system.
13. Package Terminal Heat Pumps (PTHP's) are not eligible. Only split system heat pumps with a ducted supply and return system and the duct-less mini-splits are eligible.
14. "Dealer" is the term used in this document to identify the installing contractor. Most often this will be the heating and cooling contractor that performs the load calculation, sizes the system, installs it, and performs the verification test. Final determination will be made by Norris Public Power.
15. Norris Public Power reserves the right to do random spot checks of the performance verifications to ensure program compliance. In situations where dealers submit applications that are incorrect or fraudulent, Norris has the right to cease participation of that dealer - in dealer and customer programs going forward.
17. Norris Public Power District will make final determination of program compliance decisions and reserves the right to cancel the program with 30 day notice.
18. Participation in the Norris Public Power District load management program is required for at least three years.

For program compliance questions or concerns, contact
Norris Public Power District at (402) 223-4038

HIGH EFFICIENCY HEAT PUMP PROGRAM – APPLICATION FORM

Applications will only be processed if information is provided in all 9 sections and only if homeowner and contractor signatures are completed on this form. **A copy of the receipt or documentation from a dealer must accompany each application to receive the rebate.** Complete 1 form for each residential heat pump installation. If you have any questions, please contact us (402) 223-4038. **Please return the completed application to Norris Public Power, P.O. Box 399, Beatrice, NE 68310**

Can only apply for one: **Direct Incentive from Norris Public Power** -OR- **Low Interest Loan**

1. **Name of HVAC Dealer:** _____

Address & City: _____

Phone Number: _____ Tax ID #: _____

2. **Home Owner's Name:** _____ Electric Utility: _____

Home owner's Address & City: _____

Installation Address & City: _____ Acct or Meter #: _____

Home Owner's Phone Number: _____ With the new installation, is your home all electric? YES / NO

3. **Equipment Information:** ID Coil No.: _____ Heat Pump Model: _____

Tonnage _____ Equip. Mfr. _____ Furnace/Air Handler Model No.: _____

Air Source HP: SEER _____ EER _____ HSPF _____; Ground Source HP: EER _____ COP _____

Backup for Air Source HP: Electric _____ (kW), or Fossil Fuel _____ (Btuh)

Type of Installation: New Construction _____, A/C to a Heat Pump _____, Existing Heat Pump to New Heat Pump _____

4. **Determine CFM: (Complete section A or B)**

A) Total External Static Pressure (ESP) in _____ inches of W.C.

Equivalent CFM (per equipment specifications and associated external static pressure) _____

B) Airflow check – temperature rise method with electric furnace (test in emergency heat mode)

1) _____ Volts x _____ Amps = _____ Watts x 3.414 = _____ Btuh

2) _____ Supply Air °F (minus) _____ Return Air °F = _____ Temp. Difference (TD) °F

3) _____ Btuh (divided by) 1.08 (divided by) _____ (TD) °F = _____ CFM

5. **Ground Source Heat Pump Water Side Performance: (test with hot water generator off) Skip this section if air source heat pump**

1) Inlet Temp _____ °F – Outlet Temp _____ °F = _____ Water TD 2) Water Flow Rate _____ gpm as determined by:

Flow Meter, Autoflow valve setting, or Mfr's specs @Differential Pressure (DP):

Inlet Pressure _____ psi – Outlet Pressure _____ psi = _____ Water DP

3) Heat of Extraction/Rejection = _____ gpm x _____ Water TD x 485 (glycol) or 500 (water) = _____ Btuh

6. **Measured Heat Pump Capacity Calculation: (Complete section A or B)**

A) **Heating Cycle** (test in heat pump only mode)

1) _____ Supply Air °F (minus) _____ Return Air °F = _____ (TD) °F

2) 1.08 x _____ (TD) °F x _____ CFM (section 4) = _____ Btuh

B) **Cooling Cycle** (run at least ten minutes prior to testing)

1) Return wet bulb temp. _____ = Enthalpy _____; 2) Supply wet bulb temp. _____ = Enthalpy _____

3) Enthalpy Difference = _____

4) 4.5 x _____ CFM (section 4) x _____ Enthalpy Difference = _____ Btuh

7. **Quality Assurance Inspection Results:**

A) Measured Total CFM (section 4): _____ Outdoor Temp.: _____ Mfr's. Rated HP Capacity*: _____ Btuh

B) Measured Heat Pump Capacity (section 6): _____ Btuh

C) Difference between rated and measured capacity (rated-measured)/rated) = _____ % Passed (≤ 10%) or Failed (>11%)

D) If failed – reason _____

8. **Check box to signify that AHRI Certificate is attached (required for 15+ SEER HPs & Ground Source HPs)**

AHRI Certificate No.:* _____ NATE Certification #: _____

9. **I acknowledge that this installation is in compliance with the program guidelines.**

Home Owner: _____
Print Name _____ Signature _____ Date _____

Inspection
Performed by: _____
Print Name _____ Signature _____ Date _____

2012 Residential Cooling System Tune-Up Program Guidelines

The following guidelines will generally apply. Exceptions will be handled on a case-by-case basis.

1. Qualifying systems include - any residential central cooling system that has been installed for at least one year, such as;
 - Air conditioner
 - Air source heat pump (electric or fossil fuel back-up)
 - Water source heat pump
2. The incentive payment is \$30.
3. Homeowner is only eligible to apply for an incentive every three years (36 months).
4. The incentive payment to the homeowner will come directly from Norris Public Power District. For renter/landlord situations, the party responsible for the cost of the tune-up will receive the incentive.
5. All HVAC equipment must be permanently installed in a residential single-family dwelling. A mobile home must be on a permanent foundation.
6. For duplexes and condominiums that are separately metered, they will be considered residential, thus requiring two separate applications. If they are master metered, they are considered multifamily and not eligible. Apartments that are master metered, are considered multi-family.
7. In those cases where two or more air conditioners or heat pumps are installed in the same house, both or all are eligible for the full incentive amount. Each requires its own application.
8. Window air conditioners, Package Terminal Air Conditioner (PTAC), and Package Terminal Heat Pumps (PTHP's) are not eligible. Only a ducted - split system is eligible.
9. Norris Public Power District reserves the right to do random spot checks of the work performed to ensure program compliance. In situations where a customer or the dealer submits an application that is incorrect or fraudulent, Norris has the right to cease participation for that party in programs going forward, and potentially face legal recourse.
10. Norris Public Power will make final determination of program compliance decisions and reserves the right to cancel the program with 30 day notice. Notice will be posted on www.norrisppd.com.

For program compliance questions or concerns, contact
Norris Public Power District at (402) 223-4038

\$30 Cooling System Tune-up Incentive

Application Process: 1) Fill out "Customer Information" section, 2) contractor fills out the rest of the application, 3) application must be signed by both the customer and the technician for processing, and 4) submit application to Norris Public Power District, P.O. Box 399, Beatrice, NE 68310. If you have any questions, please contact us at (402) 223-4038.

Incentive Qualifications

- \$30 Incentives are available to customers who have their cooling system inspected and tuned-up by an HVAC contractor.**
- Qualifying systems include residential central - air conditioners, air source and water source heat pumps that are served by Norris Public Power District.**
- Even though the cooling system may be serviced or tuned-up frequently, the customer is only eligible for the EnergyWise \$30 incentive a minimum of every three years.**

Customer Information:

Name on Account: _____ Do You Own _____ or Rent _____

(If Rent – Name and Phone Number of Landlord) _____

Electric Utility Provider: _____ Account # _____

Address where tune-up was conducted: _____

City: _____ State: _____ Zip: _____

I certify the tune-up, for which I am claiming an incentive for was performed within the guidelines (found at www.norrisppd.com) of the program. The utility reserves the right to inspect the work performed to ensure compliance.

Customer's Signature: _____ Date: _____

Contractor (Dealer) Information:

Company Name: _____ Date of Tune-Up: _____

Technician Name (Print): _____ (Signature): _____

If appropriate, email: Account # _____ NATE ID# _____

Equipment Information:

- _____ years since last system tune-up
- _____ years since last receiving \$30 EnergyWise incentive (only eligible to apply every 3 years)
- Air Conditioner, Air Source Heat Pump, or Water Source Heat Pump
- Est. Age of: Outdoor Unit (years) _____, and Indoor Unit (years) _____

Tune Up Checklist

_____ Clean Condenser Coil	_____ Perform Visual Inspection of System
_____ Check Refrigerant Charge	_____ Discuss Proper Operation
_____ Check Indoor Coil	_____ Discuss/ Review Proper Temperature Set-Back
_____ Check Belt/ Lube Motor, if Needed	_____ Filter Service Schedule
_____ Blow Out Drain Line	Comments: _____

TERMS & CONDITIONS

PROOF OF PURCHASE: **Sales receipt(s) or invoice(s) identifying the type, amount, and purchase date must accompany each insulation efficiency incentive application.**

INCENTIVE OFFER: This energy efficiency incentive program covers the cost of attic insulation and installation during the program year in which it is purchased and installed. Program incentives will be calculated at a rate of installation area times \$0.15 per square foot and are limited to \$300 per dwelling. **Existing attic insulation levels must average six (6) inches or less and at least six (6) inches or an additional R-19 must be installed.**

Details of this program, including incentive levels, are subject to change without notice. Norris Public Power District reserves the right to limit incentives.

ELIGIBLE CUSTOMERS: **Eligible customers must use electricity as their primary fuel source for heating.** Customers that utilize a natural gas or propane furnace as a backup to an air source heat pump do qualify. Program is for existing residential dwellings only. Duplex and multi-family dwellings that are individually metered (*not master-metered*) are eligible for one incentive per dwelling. **NEW CONSTRUCTION AND/OR ADDITIONS DO NOT QUALIFY.**

ISSUING INCENTIVES: Insulation must be purchased and installed before an energy efficiency incentive is issued. Falsifying any information may lead to cancellation of this and future incentive applications, a claim by Norris Public Power District for the return of any incentive, and/or referral for prosecution. Please allow 45 days for delivery of incentives. Submitting an application with incomplete or missing information may delay processing of the incentive. Norris Public Power District incentives will not exceed \$300 per dwelling and will be provided in the form of a credit on the customer's account.

APPROVAL & VERIFICATION: Norris Public Power District reserves the right to verify sales transactions and inspect all insulation projects prior to and after installation.

TAX LIABILITY: Norris Public Power District is not responsible for any tax liability imposed on the customer as a result of the energy efficiency incentive.

ENDORSEMENT: Norris Public Power District does not endorse any particular manufacturers, products, nor system designs in promoting this program.

SAFETY & BUILDING CODES: The customer/contractor agrees that each measure complies with all federal, state, and local safety, building, and environmental codes. All products must be UL-listed and installed per manufacturer's instructions.

DISCLAIMER OF WARRANTIES: Norris Public Power District does not warrant the performance of any material either expressly or implicitly. Contact the supplier or contractor for details regarding material warranties.