

# STATE OF NEW HAMPSHIRE

## Inter-Department Communication

**DATE:** December 11, 2013

**AT (OFFICE):** NHPUC

**FROM:** Barbara Bernstein *BB*  
Sustainable Energy Analyst

NHPUC 11DEC13PM3:35

**SUBJECT:** DE 13-298, Renewable Energy Fund Renewable Energy Incentive Program for Commercial & Industrial Bulk Fuel-Fed Wood Pellet Central Heating Systems

**TO:** Chairman Amy L. Ignatius  
Commissioner Robert R. Scott  
Commissioner Michael Harrington  
Debra A. Howland, Executive Director and Secretary

**CC:** Jack K. Ruderman, Director of the Sustainable Energy Division *JKR*  
David K. Wiesner, Staff Attorney

As outlined in the Order of Notice issued on October 11, 2013, the Commission asked Staff to develop a Commercial and Industrial (C&I) bulk fuel-fed wood pellet central heating system rebate program, with a budget of \$629,140 of REF funds allocated for state fiscal year 2014. A Technical Session was held on October 30, 2013, at which participants discussed a set of questions designed to initiate and guide the development of the program. Staff also sought guidance on the proposed program from the EESE Board at a November 8, 2013 meeting. Based on the input from the Technical Session, the EESE Board meeting, written comments, and email exchanges with industry experts and other interested parties, Staff developed a draft Step One application for circulation to parties prior to the public comment hearing held on November 22, 2013. The hearing provided additional opportunity for the industry and other interested individuals to provide further input on the questions identified and other issues relevant to development of the incentive program.

1. *How do we optimize the C&I bulk-fuel fed wood-pellet central-heating system rebate program's benefit to the state?* Commenters expressed the view that, in order to optimize the state benefits from this use of REF funds, the incentive program should be designed to support a significant number of heating system installations by a diverse group of property owners, without overly restrictive eligibility conditions.
2. *Should there be a minimum and maximum BTU size requirement for C&I systems that would be eligible?* Initially participants stated that there should be no minimum or maximum BTU size requirement to be eligible for participation in the incentive program. After discussion it was determined that the maximum size of the incentive should be large enough to support the installation of systems of significant size, but

not so large that only a small number of projects could fully subscribe the program. A greater number of approved projects would support the further development of robust wood pellet transportation and distribution networks in the state, as well as providing greater visibility throughout the state for the benefits of wood pellet heating systems. Commenters also expressed concern that, if there were no maximum size specified for eligibility, larger systems that would obtain relatively minimal benefit from the incentive program might be considered ineligible for RFPs conducted under RSA 362-F:10, XI due to their technical eligibility for this program.

3. *Should the system be based on BTU installed capacity or anticipated performance?*

Participants stated that capacity size of eligible systems should not be pre-determined and performance standards should be minimal. Most agreed it would be appropriate to set performance standards such as emissions limits, system efficiency expressed as a percentage, based on the higher heating value of the wood pellet fuel, and operational parameters such as automatic conveyance of fuel to the boiler or furnace from the storage bin. Several commenters argued that the program should not be restricted to heating systems using only wood pellets but should also be open to the use of wood chips and other woody biomass fuel sources. While other biomass technologies are available to the non-residential market, other commenters noted that this program should help to further develop a robust wood pellet delivery market. The pellet delivery truck sector is on the edge of viability, with 180+/- systems across the state to service.

4. *Should the Commission require applicants to have completed energy efficiency upgrades or audits before applying for the rebate?* There was general consensus at the Technical Session that there should not be a requirement for an energy audit. Members of the EESE Board were in agreement there should be some type of assurance that systems are not being oversized relative to normal building heat loads. Members of the EESE Board discussed how audit requirements had made some previous funding opportunities virtually inaccessible to non-residential entities, but they felt there should be some type of guidance to help ensure that the rebate funds would be well-spent. The EESE Board agreed that a requirement to participate in the EPA's Portfolio Manager<sup>1</sup> Program would provide a potential solution. Portfolio Manager requires building managers to input energy usage data and provides them with a comparison of how their building ranks in terms of energy use to the energy use of similar buildings. Without requiring an audit, this benchmarking program educates building owners and provides examples of how efficiency saves money. Other commenters stated that use of the EPA benchmarking program should not be exclusive, and other functionally equivalent programs should be approved for use by program applicants.

5. *Should we develop a tiered system to ensure a wide level of participation?*

Participants agreed there should not be any type of tiered program allocating funds to different sizes of projects or to different types of project owners, but that the market should be permitted to dictate the use of the funds subject to a maximum rebate amount.

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<sup>1</sup> <http://www.energystar.gov/buildings/facility-owners-and-managers/existing-buildings/use-portfolio-manager>.

6. *What is the optimal rebate amount to incentivize participants?* Participants were asked whether there would be an optimal rebate amount to incent participation in the program; most were in concurrence that a rebate of 30% of the total costs of eligible heating system purchase and installation, not in excess of a specified cap amount, would be an appropriate mechanism for allocating the incentive funds to particular eligible projects. Parties generally proposed a rebate cap amount within a range between \$30,000 and \$50,000.
7. *Is it permissible to stack the rebate and other incentives?* Commenters addressed whether or not it should be permissible for an eligible heating system project owner receiving a rebate under the program also to obtain electric renewable energy certificates (RECs) and/or other available incentives, such as investment or performance tax credits. The consensus of commenters was that there should be no restriction on obtaining a rebate under the program in addition to RECs, tax credits or any other available incentives available for heating system purchase, installation or operation.
8. *Should there be a limit on the number of rebates that will be accepted from a single applicant or installer?* Participants did not support a limit on the number of rebates accepted from a single applicant or installer of multiple eligible projects.
9. *How do we maximize the longevity of the systems installed?* Participants discussed how to maximize the longevity of the heating systems installed with incentive support, including whether only systems with warranties of a minimum duration should be eligible for the program. There was general agreement among participants that system longevity should be an important consideration for project owners and developers, but that the Commission should not require a manufacturer or installer warranty of any particular duration or with any specific conditions. Participants emphasized that greater flexibility on this issue would benefit all applicants.
10. *Should we require thermal storage, and, if so, what should be the required size of the thermal storage tank in relation to the size of the system?* Most participants agreed that thermal storage would be an excellent addition to many non-residential heating systems, but should not be required for program eligibility. Instead, an additional incentive rebate amount should be made available to those eligible project owners that choose to include thermal storage in their new systems. Initially, a rebate amount of \$25.00 per gallon up to \$5,000 was proposed for additional thermal storage equipment purchase and installation; subsequent comments from installers and others expressed greater support for a rebate structure of 30% of thermal storage tank and related component costs, up to a maximum rebate amount of \$5,000.
11. *Should heat-load calculations be required as part of the application?* Participants addressed the value of heat load calculations and whether or not heat load calculations should be required as part of the program application process. As with energy efficiency audits, the consensus of participants was that heat load calculations would be useful and valuable and might be recommended, but should not be required in connection with the incentive program application process.



### **Staff Recommendation**

Based on the comments and input received from installers, members of the EESE Board, and other interested individuals, Staff has developed the attached proposed Step 1 application form to be submitted for determination of initial program eligibility.<sup>2</sup> Upon completion of an approved project, a later Step 2 application would be submitted by project owners selected for program participation in order to claim the incentive funds.

Staff recommends that the Commission approve an incentive program with the following key parameters:

1. The incentive amount would be 30% of the total costs of the purchase and installation of eligible non-residential bulk-fuel fed wood pellet central heating systems, up to a maximum incentive amount of \$50,000.
2. An additional incentive equal to 30% of the costs of purchase and installation of thermal storage tank and related components, up to a maximum of \$5,000, should be available to eligible project applicants.
3. Eligible heating systems must not exceed 2.5 million BTUs in capacity. The system must include wood pellet storage of not less than three tons, and automatic conveyance of the pellet fuel from the storage container to the burn chamber. The heating appliance must turn itself on in response to a demand for heat, modulate to lower output when the heating load decreases, and turn itself off when the heating load is satisfied.
4. The heating system must have a thermal efficiency rating of 80% or greater using the higher heating value of the fuel, and must have a total particulate matter emissions rating less than or equal to 0.32 pounds per million BTU heat output. Key safety features must also be incorporated into the system, as specified in the application form.
5. Eligible projects should be the primary but not necessarily the exclusive source of heat for the building. Dual-fuel boilers or furnaces capable of burning wood chips or other woody biomass in addition to wood pellets would be eligible for the program if the applicant certifies that the fuel used will be wood pellets. Multiple staged boilers or furnaces may be included in an eligible heating system to provide greater output flexibility, but the entire system would only be eligible for a single incentive payment.
6. Energy efficiency audits should be encouraged but not required. Building energy use benchmarking using the EPA Portfolio Manager program, or an approved reasonably functional equivalent program, should be undertaken prior to submission of the Step 1 application. Heat load calculations should not be required as part of the application process.
7. Program eligibility should not be subject to tiering. Project owners should not be precluded or restricted from participation in other rebate or incentive programs, from obtaining RECs, or from claiming investment or performance tax credits.

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<sup>2</sup> Staff also relied on a spreadsheet developed by Biomass Commodities Corporation that provided an estimate of the required pellet boiler size, equipment and installation costs based on building size.

Specific warranty terms and conditions should not be required for project eligibility.

In particular, Staff recommends an incentive amount in the amount of 30% of total heating system purchase and installation costs up to a maximum of \$50,000. This level of incentive would support a project with a total cost of \$167,000 and a capacity sufficient to serve as the primary heating source for an approximately 50,000 square foot building. Staff believes that an incentive up to this maximum amount would be attractive for businesses of various sizes, schools and other municipal buildings, health care and higher educational facilities, and other non-profit institutions and organizations. Staff notes that the fiscal year 2014 budgeted amount of \$629,140 should be sufficient to fund incentives for at least 12 projects, even if all applicants propose projects eligible for the maximum incentive amount.

With respect to project size limitation, Staff recommends a maximum size for eligible heating systems of 2.5 million BTUs, in order to preserve RFP eligibility for larger projects pursuant to RSA 362-F:10, XI. This maximum project size is desirable because purchasers of larger capacity heating systems are less likely to be incented by the capped rebate amount and should not be effectively excluded from future renewable energy RFPs because they technically are eligible for this incentive program.



State of New Hampshire  
Public Utilities Commission  
Sustainable Energy Division

21 S. Fruit Street, Suite 10, Concord, NH 03301-2429



**STEP 1: REBATE PRE-APPROVAL APPLICATION  
FOR NON-RESIDENTIAL BULK-FUEL FED WOOD PELLET  
BOILERS AND FURNACES  
REVISED 12-11-13**

**PROGRAM SUMMARY**

- The Public Utilities Commission (the Commission) will provide a rebate payment of 30% of the heating appliance(s) and installation cost, up to a maximum of \$50,000, for investments in non-residential bulk-fuel fed wood pellet boilers and furnaces of 2.5 million BTU or less, that become operational, serving designed intent and installer-certified on or after [REDACTED], 2013. Additionally, a rebate of 30% up to \$5,000 is available for thermal storage tanks and related components.
- Qualifying boilers and furnaces must meet the following requirements:
  - Efficiency of 80% or greater measured using the higher heat value of the fuel.
  - Participation in the EPA [Portfolio Manager](#) program, or equivalent program\*, to [benchmark](#) the building's energy use.
  - A minimum of three tons of wood pellet storage, capable of bulk delivery.
  - Compliance with the Terms & Conditions outlined below.
- Pre-approval is required to reserve your place in the funding queue. Once the facility has been installed at the site, the applicant must then complete and submit the Step 2 application to receive a rebate.
- The rebate pre-approval expires nine months from the date this application is pre-approved and funding is reserved.
- When all available program funding has been reserved for approved projects, applicants that meet all program and project requirements will be placed on a waitlist. Projects placed on the waitlist are not guaranteed funding.

\*Benchmarking programs other than the EPA Portfolio Manager must be submitted for approval in conjunction with the Step 1 application.

**Please submit application and all associated documents to:**

Sustainable Energy Division  
New Hampshire Public Utilities Commission  
21 S. Fruit Street, Suite 10  
Concord, NH 03301-2429

*Funds for this program are made available through New Hampshire's RPS statute, RSA 362-F, which requires each electricity provider to meet a percentage of customer load by purchasing or acquiring certificates representing generation from renewable energy based on total megawatt-hours supplied.*

## PROGRAM RECOMMENDATIONS

**Thermal Storage – Applicants are strongly encouraged to discuss the benefits of thermal storage with their installer, which may include:**

- 1) Greatly improved seasonal efficiency;
- 2) Greatly reduced emissions;
- 3) Decreased boiler run time;
- 4) Decreased wear and tear on moving parts;
- 5) Decreased power consumption for motors and fuel ignition; and,
- 6) Higher occupant comfort because a boiler and tank respond immediately to heating loads. (If the pellet boiler must first light itself and heat up before it supplies heat there can be a lag.)

The ideal volume of thermal storage for pellet boilers is 20 gallons per 10,000 Btus. It is essential that the thermal storage tank and the pipes between the boiler and tank be extremely well insulated.

**Heating Appliance Warranties – Carefully review all warranties** for the parts, labor and the pressure vessel and/or heat exchanger. Ensure that the system is handled and maintained according to manufacturer's specifications.

**Premium Quality Wood Pellets – Warranties for many heating appliances require the use of premium pellets.** Low quality fuel will increase operation and maintenance costs of the system. For more information on pellet fuel standards, visit the [Pellet Fuels Institute](http://PelletFuelsInstitute.com) website.

**Properly Sized Systems –** Applicants are strongly encouraged to have contractors perform a thorough analysis of the heat load. Oversized appliances create unnecessary expense and can cause the system to be unusable during mild weather conditions during Fall and Spring—causing unnecessary use of more expensive oil or propane in the back up or peaking boilers. In pellet space heating systems, multiple staged boilers may provide added output flexibility.

**Maintenance –** Routine maintenance should be performed annually, or more often as recommended by the manufacturer. In addition, applicants are strongly encouraged to install only heating appliances that automatically clean the burn chamber and the heat exchanger according to manufacturer's guidelines.

**Ash –** The ash from non-residential wood pellet heating systems should be recycled or disposed of following NH DES rule Env-Sw 1700.

For questions regarding this rebate program, e-mail [rcphsrebates@puc.nh.gov](mailto:rcphsrebates@puc.nh.gov)

## PROGRAM ELIGIBILITY, TERMS AND CONDITIONS

Please read the Terms and Conditions carefully prior to completing the form.

1. This program is administered in accordance with RSA 362-F:10 and Puc 2500 (administrative rules). Any applicant requesting a rebate payment for any renewable energy system is responsible for meeting all terms and conditions of the program.
2. Only systems that become operational after       ,       , 2013 are eligible. Systems that were installed and became operational before the official commencement date are not eligible.
3. Projects must be located in New Hampshire. Applicant must be a project owner and an end-use customer of a provider of electricity located in New Hampshire, pursuant to Puc 2507.04. Shared-ownership projects or projects on leased space will be eligible for this program provided that the building owner gives written consent for the project and/or the building owner is a project partner.

4. Applicants receiving this one-time only rebate may combine other local, state, or federal financial incentives with this rebate, but must meet the requirements of this rebate program.
5. The rebate covers the entire installed system, including pellet storage and conveyance, boiler or furnace, controls, thermal storage tank, and installation, up to the point where the system interconnects with the building's heat distribution system.
6. Multiple staged boilers or furnaces may be included in an eligible heating system to provide greater output flexibility, but the entire system would only be eligible for a single incentive payment.
7. The rebate payment is 30% of the wood pellet boiler or furnace system cost and installation up to \$50,000, for systems of 2.5 million BTU or less. An additional rebate of 30% of the thermal storage tank and related components, up to \$5,000 is available.
8. Rebates are subject to the availability of funds received by the Commission under RSA 362-F and appropriated by the legislature. Complete applications will be processed in the order in which they are received. Applications that meet all program requirements will be approved as such. In a separate step by the Commission, funding will be reserved up to the total amount allocated and on hand for this program. Once all allocated funds are reserved, approved applications will be placed in a funding queue waitlist, again, in the order received and approved. The 9 month deadline for completion of the installation and submission of the Step 2 Form will not be triggered until funding is reserved for the project and the applicant is notified of such. If installation is not complete and the Step 2 Form is not received by the Commission within 9 months of funding reservation, the funding may be released to the next approved applicant in any funding queue waitlist. There is no guarantee that funding will be available when applications are approved.
9. An extension may be secured by contacting the Sustainable Energy Division provided funding is available and the applicant is able to make a reasonable case for the need for an extension.
10. The Step 2 Final Rebate Request Form must be submitted after the installation is complete and within nine months of the date that this rebate pre-approval form is approved and funding for the project is reserved. Applicants may submit both forms together if the installation is already complete but the rebate payment is conditioned on meeting the requirements listed herein.
11. The bulk-fuel fed wood pellet boiler or furnace system funded under this program must be located on, or at, the applicant's New Hampshire non-residential building site, which may include a business, non-profit organization, educational institution, governmental or municipal entity, or multi-family residence of 4 units or greater, and does not qualify for a rebate under the residential wood pellet rebate program.
12. Customers of municipal utilities are not eligible for a rebate under this program because municipal utilities are not subject to the NH Renewable Portfolio Standard RSA 362-F and thus do not contribute to program funding directly or indirectly.
13. Applicants must show evidence of participation in the EPA's [Portfolio Manager](#) Program, or equivalent and approved program, to [benchmark](#) building energy use. Benchmarking programs other than the EPA Portfolio Manager must be submitted to the Commission for approval in conjunction with the Step 1 application.
14. This rebate payment must be used for the installation of new, commercially available, high thermal efficiency<sup>1</sup>, bulk-delivery capable wood pellet boilers and furnaces utilized in a central heating system or industrial process where:
  - a. **The system has a thermal efficiency rating of 80% or greater.**
  - b. **The total particulate matter emissions rating is 0.32 lb/MMBtu heat output or less.<sup>2</sup>**
  - c. **Basic attributes of allowed boilers or furnaces include:**
    - i. The heating appliance(s) turns itself on in response to a demand for heat.
    - ii. The heating appliance(s) modulates to lower output and/or turns itself off when the heating load decreases or is satisfied.
    - iii. Fuel is automatically conveyed from the bulk storage container/area (device) to the burn chamber in a planned/integrated path without operator intervention of any sort.

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<sup>1</sup> For the purposes of this program, high efficiency is defined as boilers/furnaces that operate at a minimum thermal efficiency of 80% using the higher heating value (HHV) of the fuel. Efficiency rates may be determined by third party testing laboratories approved and recognized by authorities having jurisdiction in the United States, Canada, and/or the European Union.

<sup>2</sup> Emissions may be determined by third party testing laboratories approved and recognized by authorities having jurisdiction in the United States, Canada, and/or the European Union.



**d. Bulk fuel capability features include:**

- i. The boiler or furnace system has built-in fuel conveyance capability that can be pneumatic (suction) or mechanical (auger) or a combination of two transport mechanisms from the bulk storage device. The fuel conveyance can also be an add-on feature as long as it allows for seamless and safe conveyance of fuel from the storage device to the burn chamber without operator intervention of any sort;
- ii. The boiler or furnace system can convey fuel from almost any appropriately adapted bulk storage device to allow flexibility in placement and design. The heating system shall not be restricted to any one bulk storage device, for instance one made by the same manufacturer as the appliance;
- iii. The pellet-fuel storage bin shall have a minimum capacity of three tons; and,
- iv. Pellet fuel storage bin access (by pipe or auger or both) is located 100 feet or less from the street or driveway. Contact your local distributor of wood pellets to ensure that delivery is possible to your location.

**e. Key safety features include:**

- i. There is a positive closure and/or fire extinguishing device and/or emergency disconnection device between the burn chamber and the bulk storage device to keep the fire from reaching the bulk pellets.
- ii. The fuel fill pipe to the storage bin must be grounded or anti-static.
- iii. A placard is attached to the bin with safety precautions.<sup>3</sup>
- iv. A carbon monoxide (CO) detector is installed in the room with the pellet boiler or furnace and internal pellet storage or hopper.<sup>4</sup> If the wood pellet boiler or furnace and the storage bin are in the different, indoor locations, multiple CO detectors are required.

- 15. The wood pellet boiler or furnace must be installed by a qualified installer who is a sole proprietorship, company, corporation, limited liability company, or other organization authorized to conduct business in the State of New Hampshire that is normally commercially engaged in the installation of wood pellet boilers and furnaces or who is a licensed New Hampshire plumber who has received training in the installation of the system installed.
- 16. Outdoor wood-pellet boilers are eligible for this program if they meet the efficiency requirements listed on page 3. Wood-pellet stoves, regular stick or cord wood stoves, and cord wood boilers and furnaces are not eligible for this program. Dual-fuel boilers or furnaces capable of burning wood pellets or other woody biomass are eligible if the owner certifies that the fuel used will be wood pellets.
- 17. Replacement or expansion of system components does not constitute an eligible project unless it includes installation of a new eligible boiler.
- 18. Do-It-Yourself installations do not qualify.
- 19. Used parts cannot be included in the cost of the wood pellet boiler or furnace system or thermal storage system used to calculate the rebate payment. The boiler or furnace and conveyance system must be new.
- 20. Applicants who choose to install systems, in whole or in part, prior to Step 1 approval by the Commission may still apply for this rebate payment by submitting both the Step 1 and Step 2 applications, but the rebate payment is conditioned on meeting the requirements listed herein and available funding.
- 21. Any wood pellet boiler or furnace system must comply with all manufacturers' requirements and the State Building Code pursuant to [RSA 155-A:1, IV](#) and any applicable local codes or ordinances. Manufacturers must provide third-party testing data to verify that their systems meet the efficiency requirements specified on page 2.
- 22. Any wood pellet boiler or furnace system is subject to inspection and monitoring by the Commission, the State Fire Marshal and local code authorities or their agents for safety and performance.
- 23. Rebates are subject to the availability of funds; complete applications will be processed in the order in which they are received.

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<sup>3</sup> Installers should contact [rcphrebates@puc.nh.gov](mailto:rcphrebates@puc.nh.gov) for an example of a safety placard.

<sup>4</sup> A carbon monoxide detector is not necessary for outdoor storage.

24. All program requirements and documentation must be complete and submitted in order to receive approval for a rebate payment. Payment of the rebate may be subject to inspection of the facility by an agent of the Commission to confirm that the system is operational and consistent with the application, with appropriate advance notice to the owner.
25. Certain information concerning the performance and effect of this rebate program, including system details, name, address, zip code, and total installed costs of systems installed with program support may be available to the public and may be publicly posted. Additional information may be released upon official request. Specific personal information in which the applicant has a strong privacy interest, including Social Security numbers, telephone numbers and email addresses will remain confidential to the extent permitted under the NH Right-to-Know law, RSA 91-A.
26. The Commission reserves the right to request system performance data for a period of ten (10) years after issuing the rebate. Such information may include fuel use, equipment service needs, and boiler cycling information.
27. If it is determined that the rebate was obtained fraudulently, the recipient, in addition to other penalties or charges, may be liable to the State of New Hampshire for the entire amount of the rebate.
28. Any rebate received under this program may be treated as taxable income by the IRS. It is the responsibility of the recipient of this rebate payment to consult with his or her tax advisor to determine the correct tax treatment of these payments. Applicants who do not provide their Federal Taxpayer ID, Employer ID, or Social Security Number on the Step 2: Final Rebate Request Form will not be eligible for reimbursement.
29. Any installer who fails to complete installations in a workmanlike manner, consistent with generally accepted industry practices and generally free of material defects, including failure to comply with applicable building and fire safety codes, as may be evidenced by an objective third party inspection and evaluation, may be barred from future program participation.
30. The Commission reserves the right to modify the program terms, conditions, or technical requirements when it is deemed to be in the public interest.
31. Incomplete, inaccurate, or ineligible applications will be rejected and removed from the queue.

*Note: For the **STEP 2: FINAL REBATE REQUEST FORM FOR OPERATIONAL SYSTEMS** you will be expected to provide the following:*

- Paid invoices,
- Photographs of the final installation, including:
  - the heating system;
  - the pellet storage system;
  - the thermal storage system; and,
  - carbon monoxide detector or detectors if the wood pellet boiler or furnace and the storage bin are in different indoor locations.
- A copy of your building permit and documentation that the system has been inspected by a local building code official and/or sign-off from a local fire jurisdiction.

**\*\*Because this application requires original signatures, no electronic copies will be accepted\*\***

**APPLICANT INFORMATION**

Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Town/City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Installation Address (if different): \_\_\_\_\_

Telephone: \_\_\_\_\_ Cell: \_\_\_\_\_

County: \_\_\_\_\_ Email address: \_\_\_\_\_

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Please check if you would like to receive periodic updates from the PUC's Sustainable Energy Division through our *Email Alert List* regarding grant opportunities, educational events and news about renewable energy and energy efficiency in New Hampshire.

**BUILDING INFORMATION**

Please describe the primary use of the building. (e.g. business, non-profit, educational institution, government/municipal entity, multi-family unit of 4 units or greater, or other.)

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Check here to confirm that the EPA's Portfolio Manager program, or equivalent and approved program, has been used to benchmark the building's energy performance.

Briefly list past energy audits, energy efficiency upgrades, and benchmarking activities completed for this specific location.

Year of original building: \_\_\_\_\_ Building Size (Sq Ft) \_\_\_\_\_

**INFORMATION ON THE EXISTING HEATING SYSTEM**

FUEL USED:	Oil <input type="checkbox"/>	Natural Gas <input type="checkbox"/>	Propane <input type="checkbox"/>	Wood <input type="checkbox"/>	Electric <input type="checkbox"/>	Other (please describe) <input type="checkbox"/>
Approximate age of heating appliance:			Rated heating appliance efficiency:			
Source of rating: (e.g. your oil service company or your new heating system installer):						

**INSTALLATION INFORMATION ON THE NEW WOOD PELLET BOILER OR FURNACE**

Anticipated start date:		Anticipated date of completion:	
Rated efficiency of new boiler or furnace:			

**NEW HEATING SYSTEM INFORMATION**

Manufacturer:					
Product name(s):			Model #(s)		
Please indicate if your new appliance(s) will be a boiler or a furnace and the number of units being installed.			Boiler(s): <input type="checkbox"/>	Furnace(s): <input type="checkbox"/>	# of appliance(s) being installed
What size is the total new heating system (Btu/hour)?					
<i>If thermal storage is included, complete the following:</i>					
Tank name and product identification				Size (gallons)	
(For purposes of data collection only) are you removing your old heating system? Yes <input type="checkbox"/> No <input type="checkbox"/>					

**PELLET FUEL STORAGE SYSTEM INFORMATION**

Manufacturer:		Product Identification #:	
Capacity (tons):			
Conveyance: (how the pellets get from the storage vessel to the heating system)			

**INSTALLER**

Installer Name:		Company:			
Mailing Address:					
Town/City:		State:		Zip Code:	
Telephone:		Email:			
DUNS # or Employer ID #					
Company Type:	HVAC <input type="checkbox"/>	Plumbing <input type="checkbox"/>	Other <input type="checkbox"/>	Describe:	
Has the installer completed approved manufacturer or distributor installation training?				Yes <input type="checkbox"/>	No <input type="checkbox"/>
If the installation is being done by a NH licensed plumber, provide the license number.					



**REBATE CALCULATION**

<b>Project Components</b>					
# Boiler or Furnace Appliance(s) Utilized by System			\$	Total appliance(s) cost	
Fuel Storage Bin			\$		
Fuel Conveyance			\$		
Controls & Circulators			\$		
Indirect Hot Water Heater			\$		
Labor			\$		
Carbon Monoxide Detector			\$		
Other*			\$		
<b>Total Project Cost</b>			\$	<b>X 30% up to \$50,000</b>	\$
<b>If thermal storage is included, complete the following:</b>					
Thermal Storage Tank	\$	+	Tank Components	\$	<b>X 30% up to \$5,000 = \$</b>
<b>Total Rebate Requested</b>					\$

\*Includes eligible components up to the point of interconnection with heat distribution system.

**WOOD PELLET CENTRAL BOILER AND FURNACE REQUIRED ATTACHMENTS**

<b>These items (copies) must be attached to the application:</b>	<b>Attached</b>
Signed contract with qualified installer	<input type="checkbox"/>
Photographs of the old system	<input type="checkbox"/>
Installer's certification or approved authorization from the manufacturer or distributor	<input type="checkbox"/>

**DECLARATION** Only one signature needed per facility.

The Undersigned applicant declares under penalty of perjury that:

- 1) the applicant intends to purchase and install the wood pellet central boiler or furnace system described in this application;
- 2) the applicant has read and understands the terms and conditions set forth in this application with attachments and has agreed to abide by those requirements;
- 3) the information provided in this form is true and correct to the best of the applicant's knowledge;
- 4) the applicant agrees that the system and documents supporting the application may be audited and inspected by the Commission or an agent of the Commission; and,
- 5) the applicant gives permission to the PUC to contact the applicant's installer in order to notify the installer of pre-approval of the rebate.

Applicant's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Subscribed and sworn before me this \_\_\_\_\_ (day) of \_\_\_\_\_ (month) in the year \_\_\_\_\_

County of \_\_\_\_\_ State of \_\_\_\_\_

\_\_\_\_\_  
Notary Public/Justice of the Peace  
My Commission expires \_\_\_\_\_