

Energy Efficiency Engineering Study Application for Business and Multifamily Buildings



50% of the cost of an engineering study is available for approved projects up to \$10,000 for gas heating business customers.



nationalgrid

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Save on energy, save on operating costs, save the environment

Follow these steps to participate:

- 1) The engineering study must be completed by either a certified energy manager (CEM) or a professional engineer (PE).
- 2) A complete application must be submitted for approval. All sections must be completed or included in an attachment.
- 3) The study results need to provide the following:
 - Engineer contact information
 - Executive summary including recommended efficiency measures and interactive gas and electric savings
 - Planned facility description and usage
 - Study process and methodology with detailed calculations and assumptions
 - Proved base case assumptions and proposed systems for all recommended energy conservation measures (ECMs)
 - Individual savings associated with each upgrade
- 4) Applications must be received by December 31, 2009, for consideration under the current program year.
- 5) 50% of the cost of an engineering study is available for approved projects up to \$10,000 for gas heating business customers.

Examples of acceptable format of study results

Example 1: Table summary of recommended measures with interactive gas and electric savings

ECM No.	Measure Name	Savings		Total cost reduction	Incremental Cost	Simple payback
		Electric values kWh	Natural gas values therms			
Base Case	Annual Energy Usage	703,241	16,038	\$109,711		
ECM #1	Improved wall insulation	-4,131	1,172	\$1,166	\$13,161	11.3
ECM #2	Improved window assemblies	5,330	-178	\$403	\$1,227	3.0
ECM #3	Demand Control Ventilation	18,205	591	\$3,091	\$7,170	2.3
ECM #4	Heat recovery off process load	-8,341	7,543	\$9,757	\$37,500	3.8
Interactive Subtotal for all measures		11,063	9,128	\$14,417	\$59,058	4.1
Proposed Case Interactive Energy Use		692,178	6,910	\$95,294		

Example 2: Detail breakout of ECM #3

Base Case: Fixed ventilation based on estimated occupancy levels

Proposed Case: The installation of Demand Control Ventilation (DCV) will vary the amount of air delivered based on CO₂ levels in the space. Energy savings arise from the decrease in the amount of air handled by the HVAC units and fan boxes. By installing DCV, total air flow to the space can be reduced from 5,390 cfm to 4,353 cfm, yielding electrical savings of \$3,091/year and natural gas savings of 591 therms/year. Payback for this measure is 2.3 years. The installation of this measure involves installing CO₂ sensors that are tied into the controls for the HVAC units and fan boxes.

Energy Efficiency Engineering Study Application

Customer/Facility Name _____ Account # _____

Address _____ City _____ State _____ Zip _____

Contact Name _____ Phone _____ Email Address _____

New Construction National Grid Representative _____

Base Case or Proposed Case

Project Description:

Project Scope: Identify gas-saving measure(s) that will be evaluated. Attach supporting documents.

Engineering Firm _____ Estimated Study Cost _____

Address _____ City _____ State _____ Zip _____

Contact Name _____ Phone _____ Ext _____

Study Start Date _____ Study Completion Date _____

Please Pay Rebate To: Tax ID Number must be provided for payment.

Payee Name _____ Payee Tax ID # _____

Address _____

City _____ State _____ Zip _____

Customer Signature _____ Customer Name (Please Print) _____ Date _____

Where did you hear about this program?

- SALES REP/ACCOUNT EXECUTIVE HEATING CONTRACTOR ENERGY AUDITOR EQUIPMENT SUPPLIER
 TRADE SHOW PRINT ADVERTISING INTERNET RADIO/TV OTHER

Please send this completed application along with scope of work or relevant sections of RFP requesting engineering services to:
National Grid Efficiency
1341 Elmwood Avenue
Cranston, RI 02910
1-800-843-3636
save@us.ngrid.com

National Grid Energy Efficiency Engineering Co-funding Application Terms & Conditions

- Funding for Engineering Studies** - Subject to these Terms & Conditions, National Grid ("the Company"), through its contractual vendor, will pay rebates to eligible National Grid customers when approved projects are completed. Funding for Engineering Studies cannot be provided to firms who have a vested interest in deploying energy efficiency technologies, measures, or practices.
- Changes in the Engineering Grant Program** - National Grid reserves the right to close or alter the Program at any time. Check www.thinksmarthinkgreen.com frequently for program updates or installation extensions
- Customer Eligibility** - National Grid customers are eligible if they are firm tariff gas customers on a qualifying commercial rate code and they are directly responsible for the payment of the National Grid energy bills for the facility in which they do business. Completed applications must be received by 12/31/2009.
- Pre-Approval Process** - Funding for Engineering Studies must be approved, in writing, by National Grid and/or National Grid's representative in advance. Customers wishing to participate must submit a completed Energy Efficiency Application Form along with a scope of work to the Program. Customers will be notified in writing via a commitment letter of the approved Engineering Study and the approved rebate amounts.
- Post-Study Verification** - Grants for Engineering Studies completed will be paid at the sole discretion of the Company. National Grid requires two copies of the final report including supporting savings analysis. If the Company determines that the measure recommendations were not consistent with Program guidelines and applicable state and local code requirements, it may require that the Engineering Study be modified before making any grant payments. The cost of such modifications is the responsibility of the Customer.
- Energy Efficiency Improvements** - (a) The Program will only pay rebates for the pre-approved studies specified on the front of the Application. There will be no rebate payments for substitute measures unless the substitute is approved by the Program in writing and in advance of installation. (b) All installations must be installed in conformance with state and local code requirements and by properly licensed contractors.
- Grant Amounts** - The Company will provide grants for approved Engineering Studies equal to as much as 50% of the cost of the Engineering Study up to a maximum grant of \$10,000.
- Indemnification** - Customer shall defend, indemnify and hold harmless the Company and its officers, directors, employees, agents, servants and assigns from and against any and all losses, claims, demands and/or liability for damage to property, injury or death of any person, or any other liability incurred by the Company, including all expenses, legal or otherwise, arising out of or related to the equipment or installation, except to the extent attributable to the negligence of Company. In no event shall Company's liability to Customer exceed the incentive amounts.
- Proof-of-Cost of Engineering Studies** - The Customer must submit copies of all invoices itemizing all the costs of the Engineering Study. In addition, the Company may request any other reasonable documentation or verification of the date of completion or the cost to the Customer of the Engineering Study. The documentation shall be provided with the submission of this application.
- Payment** - The Company intends to make rebate payments to eligible customers within 45 days of satisfactory work verification.
- No Warranties** - (a) The Company does not endorse, guarantee or warrant any particular contractor, vendor, manufacturer or product. (b) The Company does not make any representation of any kind regarding the results to be achieved by the recommended measures or the adequacy or safety of such measures.
- Limited Scope Review** - The scope of review by the Company and of the measure recommendation is limited solely to determining whether grants are payable. It does not include any kind of safety or code review, and should not be relied upon as one.
- Payments Assignable to a Third Party** - (a) The Customer may request that the Program grant be paid directly to a third party by so indicating on the front of this application. (b) If no payment choice is made, the Company will send the payment to the Customer directly at the address indicated in this Application.
- No Tax Liability to the Company** - The Customer shall be responsible for any tax liability which may be imposed as a result of receipt of the rebate by the Customer.
- Contractor Insurance** - The Company is not responsible for any damage that may be caused as a result of an installation of any recommended measure. It is the responsibility of the customer to select Contractors who carry appropriate insurance coverage.

National Grid is one of the largest investor-owned energy companies in the world. In the US, we serve nearly 5 million electric and 3.4 million gas customers in Massachusetts, New Hampshire, New York and Rhode Island. Save energy and money with our award-winning efficiency programs. **Visit www.thinksmarthinkgreen.com.**