



Natural Resources
Canada

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ecoENERGY
an ecoACTION initiative

Effective March 30, 2009



As part of the Government of Canada's Economic Action Plan, the ecoENERGY Retrofit – Homes program has been expanded to help 200,000 more homeowners cover the cost of making energy-efficiency retrofits to their homes. The expanded time-limited program includes a \$300-million increase in funding over two years.

Grant Table for ecoENERGY Retrofit – Homes

Thinking of ways to make your home more energy-efficient? Here's what you can do to reduce your energy consumption and receive grants through ecoENERGY Retrofit – Homes.

Natural Resources Canada (NRCan) is offering residential energy efficiency evaluations through licensed service organizations to owners of single-family homes, including detached, semi-detached and low-rise multi-unit residential buildings (MURBs) that are no more than 3 storeys high. Also eligible are some small buildings of no more than 3 storeys for which at least 50 percent of the floor area is used as one or more permanent residences. Under ecoENERGY Retrofit – Homes, property owners can qualify for federal grants by improving the energy efficiency of their home and reducing their home's impact on the environment.

Energy advisors that are certified by NRCan conduct a detailed, on-site evaluation of your home's energy use from the attic down to the foundation. They then provide you with a personalized report, including a checklist of recommended retrofits to improve the energy efficiency of your home or MURB and, in some cases, reduce water consumption. The report also shows the grant amounts for each eligible upgrade that you can receive by carrying out these energy-saving improvements.

On the following pages, you will find a list of improvements and retrofits that are eligible under the ecoENERGY Retrofit – Homes program and the corresponding grant amounts. The maximum grant you can receive for a home is \$5,000. In the case of MURBs, the maximum grant receivable is \$5,000 per dwelling unit. The maximum grant for property owners with multiple properties is \$500,000.

The grant is calculated and based on the grant amounts and eligibility requirements that are in effect at the time of the post-retrofit evaluation. You must complete your retrofits and receive your post-retrofit evaluation by March 31, 2011, or within 18 months from the date of your pre-retrofit evaluation report, whichever comes first and subject to available funding.

Once you have received your post-retrofit evaluation, you can re-enter the program using the evaluation as a baseline if you would like to perform more work within a new 18-month deadline, provided you do not exceed the maximum grant of \$5,000 per dwelling unit. To re-enter the program, you must first contact your service organization to register for a new 18-month period.



Canada

Eligible Improvements / Retrofits

Grant Amounts

When replacing ANY of the equipment listed in this brochure, the new equipment must have an efficiency rating equal to or higher than that of the original equipment. The second system must be of the same type and efficiency.

HEATING SYSTEM	SINGLE-FAMILY HOME		MURB
	1 st system	2 nd system	
<p>Replace your heating system with</p> <ul style="list-style-type: none"> an ENERGY STAR[®] qualified gas furnace that has a 92.0 percent annual fuel utilization efficiency (AFUE) or higher 	\$375	\$190	
<ul style="list-style-type: none"> an ENERGY STAR qualified gas furnace that has a 92.0 percent AFUE or higher and a brushless DC motor 	\$625	\$315	
<ul style="list-style-type: none"> an ENERGY STAR qualified gas furnace that has a 94.0 percent AFUE or higher and a brushless DC motor 	\$650	\$350	
<ul style="list-style-type: none"> an ENERGY STAR qualified gas furnace that has a 94.0 percent AFUE or higher and a brushless DC motor (when installing a condensing furnace for the first time) 	\$790	\$400	
<ul style="list-style-type: none"> an ENERGY STAR qualified condensing gas boiler that has a 90.0 percent AFUE or higher 	\$750	\$375	SAME AS SINGLE-FAMILY HOME
<ul style="list-style-type: none"> an ENERGY STAR qualified oil boiler that has an 85.0 percent AFUE or higher 	\$750	\$375	
<ul style="list-style-type: none"> an ENERGY STAR qualified oil furnace that has an 85.0 percent AFUE or higher 	\$375	\$190	
<ul style="list-style-type: none"> an ENERGY STAR qualified oil furnace that has an 85.0 percent AFUE or higher and a brushless DC motor 	\$625	\$315	
<p>In the case of mobile homes (only)</p> <ul style="list-style-type: none"> where a zero-clearance furnace is being replaced, an ENERGY STAR qualified zero-clearance gas furnace that has a 90.0 percent AFUE or higher 	\$375	N/A	
<p>Install an earth-energy system (ground or water source) that is compliant with CAN/CSA-C448 and certified by the Canadian GeoExchange Coalition (www.geo-exchange.ca) – applies to a new system or a complete replacement.</p>	\$4,375	N/A	
<p>Replace a heat pump unit of an existing earth-energy system (ground or water source). The system must be compliant with CAN/CSA-C448 and certified by the Canadian GeoExchange Coalition (www.geo-exchange.ca). (*per equipment replaced)</p>	\$1,750	N/A	*\$1,750
<p>Replace your existing space and domestic water heating equipment with an integrated mechanical system (IMS) that has an overall thermal performance factor of 0.90 or higher. The system must be compliant with the CSA P.10-07 standard and meet or exceed the standard’s <i>premium</i> performance requirements. (*per equipment replaced)</p>	\$1,625	N/A	*\$1,625

N/A = Not applicable

NOTE: New installations are not eligible in cases where improvements listed state “Replace.” Natural Resources Canada (NRCAN) reserves the right to revise the grant amounts. The payment of grants is subject to the availability of funds. NRCAN does not endorse the services of any contractor or any specific product and accepts no liability in the selection of materials, products, contractors or performance or workmanship.

Eligible Improvements / Retrofits

Grant Amounts

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HEATING SYSTEM (Cont'd)

	SINGLE-FAMILY HOME		MURB
	1 st system	2 nd system	
Replace your wood-burning appliance with a model that meets either CSA-B415.1-M92 or the U.S. Environmental Protection Agency (EPA) (40 CFR Part 60) wood-burning appliance standard; an indoor wood pellet-burning appliance (includes stoves, furnaces and boilers that burn corn, grain or cherry pits); or a masonry heater. (*per equipment replaced)	\$375	\$190	*\$375
Replace your solid fuel-fired outdoor boiler with a model that meets CAN/CSA-B415.1 or the U.S. EPA Outdoor Wood-fired Hydronic Heater (OWHH Method 28) Program, Phase 1. The capacity of the new boiler must be equal to or smaller than the capacity of the boiler being replaced.	\$375	N/A	\$375 (per building)
Install a minimum of 5 electronic thermostats for electric baseboard heaters. Electric baseboard heating must be the primary space heating system. (*for each set of 5 electronic thermostats)	\$40/5	N/A	*\$40
Install an ENERGY STAR qualified air-source heat pump for both heating and cooling that has a seasonal energy efficiency ratio (SEER) of 14.5 or higher and a minimum heating capacity of 12 000 Btu/hour. See “Important Information about Air-Source Heat Pumps and Central Air Conditioners.” (*per equipment installed)	\$500	N/A	*\$500

Important Information about Air-Source Heat Pumps and Central Air Conditioners

In the case of **air-source heat pumps and central air conditioners**, a manufacturer’s new ENERGY STAR qualified matched condenser coil (outdoor unit comprising a condenser coil, compressor and cooling fan) and indoor evaporator coil (typically located with the furnace) must have a SEER of 14.5 or higher. Under no circumstances will the replacement of only one of these coils entitle the homeowner to a grant, just as components that are not certified by the manufacturer as being matched (i.e. tested together) will not be accepted. Currently, some manufacturers match their low SEER air conditioner/air-source heat pump coil packages with one of their brushless DC motor-equipped furnaces (i.e. blowers) as a method to reduce the power consumption requirement for ENERGY STAR compliance and labelling. However, this arrangement is not accepted under the ecoENERGY Retrofit – Homes program because NRCan already provides separate grants for furnaces that have an energy-efficient brushless DC motor.

To be ENERGY STAR qualified in Canada, in addition to the minimum requirement of SEER 14.5, **air-source heat pumps** must also have a minimum heating seasonal performance factor (HSPF) of 7.1 for Region V, which is more reflective of the Canadian climate. If the heat pump is only rated for Region IV, which is used in the United States, it must have a minimum HSPF of 8.2.

Mini-split (ductless) air-source heat pumps must have at least one head per floor, excluding the basement, to qualify for a grant.

In the case of **mini-split (ductless) air conditioners** that do not have at least one head per floor, excluding the basement, each head will be considered a room air conditioner and the grant amount will be reflected as such.

When having your new central air conditioner or air-source heat pump installed, ask the contractor to indicate on your invoice the manufacturer’s name (not the model name) of the condenser coil and the model numbers of both the new condenser and evaporator coils. Preferably, the Air-Conditioning and Refrigeration Institute (ARI) reference number should also be referenced on the invoice. The energy advisor will request to see this information when performing the post-retrofit evaluation of your home.

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Eligible Improvements / Retrofits

Grant Amounts

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COOLING SYSTEM (Replacement Only)

	SINGLE-FAMILY HOME		MURB
Replace your central air-conditioning system with an ENERGY STAR qualified system that has a SEER of 14.5 or higher (complete system replacement, including indoor coil and outdoor components). See “Important Information about Air-Source Heat Pumps and Central Air Conditioners.”	1st system \$250	2nd system N/A	\$250 (per building)
Replace your window air conditioner(s) with an ENERGY STAR qualified unit(s). See “Important Information about Air-Source Heat Pumps and Central Air Conditioners.”	\$25 (per unit replaced; maximum of 5 units)	N/A	\$25 (maximum of 2 units per dwelling unit)

VENTILATION SYSTEM (New installation or replacement)

Install a ventilation system that is certified by the Home Ventilating Institute (HVI) as a heat- or energy-recovery ventilator. The HVI Product Directory is available at www.hvi.org . Click “Consumers” and “Certified Products Directory.” (*per equipment installed)	\$375	N/A	*\$375
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DOMESTIC HOT WATER SYSTEM

	SINGLE-FAMILY HOME		MURB
Install a solar domestic hot water system with solar collectors that meets the CAN/CSA F378.87 standard and provides a minimum energy contribution of 6000 megajoules per year. For a list of eligible solar collectors, see the “Glazed Water Heating Solar Collectors – Flat Plate Collectors” and “Glazed Water Heating Solar Collectors – Evacuated Tube and Concentrating Collectors” sections of the “List of Accepted Solar Collectors” found at www.ecoaction.gc.ca/heat . (*per equipment installed)	1st system \$1,250	2nd system N/A	*\$1,250
Replace your domestic hot water heater with an ENERGY STAR qualified instantaneous, gas-fired water heater that has an energy factor (EF) of 0.82 or higher and is on the ecoENERGY Retrofit – Homes list of eligible domestic hot water heaters (refer to the Web site indicated at the end of this brochure). (*per equipment replaced)	\$315	N/A	*\$315
Replace your domestic hot water heater with an ENERGY STAR qualified instantaneous, condensing gas-fired water heater that has an EF of 0.90 or higher and is on the ecoENERGY Retrofit – Homes list of eligible domestic hot water heaters (refer to the Web site indicated at the end of this brochure). (*per equipment replaced)	\$375	N/A	*\$375
Replace your domestic hot water heater with a condensing gas storage-type water heater that has a thermal efficiency of 94 percent or higher and is on the ecoENERGY Retrofit – Homes list of eligible domestic hot water heaters (refer to the Web site indicated at the end of this brochure). (*per equipment replaced)	\$375	N/A	*\$375
Install a drain-water heat recovery (DWHR) system. Grants are based on the efficiency of the system, determined by an independent testing facility. For a list of eligible systems and their efficiency, go to www.ecoaction.gc.ca/homes and refer to “Questions and Answers.” (*per equipment installed)			
• efficiency between 30.0 and 41.9 percent	\$95	N/A	*\$95
• efficiency of 42.0 percent or higher	\$165	N/A	*\$165

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BUILDING ENVELOPE

When adding insulation to the building envelope, pay special attention to the type and the placement of vapour barriers per local building codes.

For a multi-unit residential building, the grant for insulation is multiplied by the MURB MULTIPLIER shown on page 7.

CEILING INSULATION

A minimum of 20 percent of the total ceiling area must be insulated to qualify. When the roof has more than one type (i.e. attic, cathedral ceiling, flat roof), all applicable grants are pro-rated based on the ceiling area that is insulated. The **maximum grant** for any combination of attic, cathedral ceiling and flat roof is \$750. Grants listed reflect 100 percent of the ceiling area being of one roof type.

STARTING POINT

Increase the insulation value of	R-12 and less	Greater than R-12 and up to R-25	Greater than R-25 and up to R-35
<ul style="list-style-type: none"> your attic to achieve a total minimum insulation value of RSI 7 (R-40) your attic to achieve a total minimum insulation value of RSI 8.8 (R-50) your flat roof and/or cathedral ceiling to achieve a total minimum insulation value of RSI 5 (R-28) 	\$500	\$250	N/A
	\$750	\$375	\$125
	\$750	\$250	N/A
Add a minimum insulation value of RSI 1.8 (R-10) to your uninsulated flat roof and/or cathedral ceiling and qualify for a grant of \$500.			

EXTERIOR WALL INSULATION

MINIMUM ADDITIONAL INSULATION

	Percent area	R-3.8 to R-9	Greater than R-9
A minimum of 20 percent of the total exterior wall area must be insulated to qualify. The grant is based on the percentage of wall area that is insulated and does not include walls between individual dwelling units. See "Important Note about Semi-Detached and Row Houses."	20%	\$225	\$375
	40%	\$450	\$750
	60%	\$675	\$1,125
	80%	\$900	\$1,500
	100%	\$1,125	\$1,875

EXPOSED FLOOR INSULATION (overhangs and floors above an unheated space, excluding crawl spaces)

Insulate your entire exposed floor and increase its insulation value by a minimum of RSI 3.5 (R-20). A minimum floor area of 14 square metres (150 square feet) must be insulated to qualify.	\$190
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FOUNDATION INSULATION

When both a basement and crawl space are present, all applicable grants are pro-rated to a maximum of \$1,250 based on the total wall area that is insulated.

BASEMENT INSULATION

MINIMUM ADDITIONAL INSULATION

A minimum of 20 percent of the foundation’s wall area (including basement and crawl space walls, when applicable) must be insulated to qualify. The grant is based on the percentage of wall area that is insulated and does not include walls between individual dwelling units. See “Important Note about Semi-Detached and Row Houses.”	Percent area	R-10 to R-23	Greater than R-23
	20%	\$125	\$250
	40%	\$250	\$500
	60%	\$375	\$750
	80%	\$500	\$1,000
	100%	\$625	\$1,250

BASEMENT HEADER INSULATION

MINIMUM ADDITIONAL INSULATION

Seal and insulate your entire basement header area, increasing its insulation value by a minimum of RSI 3.5 (R-20)	R-20
	\$125

CRAWL SPACE INSULATION

MINIMUM ADDITIONAL INSULATION

Insulate 100 percent of the crawl space’s total exterior wall area, including the header area. See “Important Note about Semi-Detached and Row Houses.” Or Insulate 100 percent of the floor above the crawl space to increase its insulation value by a minimum of RSI 4.2 (R-24).	R-10 to R-23	Greater than R-23
	\$500	\$1,000
	N/A	\$250

IMPORTANT NOTE ABOUT SEMI-DETACHED AND ROW HOUSES

In the case of a semi-detached or row house that is an end unit, the grant amount for the insulation of exterior walls, basement or crawl space walls is 75 percent of the amounts shown. In the case of a row house that is a middle unit, the grant amount is 50 percent of the amounts shown.

AIR SEALING

SINGLE-FAMILY HOME

Perform air sealing to improve the air-tightness of your home to achieve the air change rate indicated in your ecoENERGY Retrofit – Homes report. BONUS: If you reach 10 or 20 percent better than the target included in your report, you can obtain an additional grant.	\$190	
	10%	\$120
	20%	\$240

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IMPORTANT NOTES

1. Natural Resources Canada reserves the right to revise the information contained in this document, including the grant amounts and the eligibility requirements, without notice. The payment of grants is also subject to the availability of funds. Refer to the Web site indicated below for the most up-to-date information, or contact your local licensed service organization.
2. All upgrades or renovations must meet local codes and by-laws. Before undertaking upgrades or renovations, find out about the appropriate products and installation techniques to ensure that your home's building envelope and indoor air quality will not be compromised.
3. Read carefully the recommendations found in your ecoENERGY Retrofit – Homes report for more information.
4. Renovations that are part of an addition made to a property following the pre-retrofit evaluation are not eligible for a retrofit grant and may reduce the grant amount for the improvement done on the existing portion of the house. Consult your energy advisor.
5. Insulation value in RSI equals the R insulation value divided by 5.678.
6. For more information on ENERGY STAR qualified products, visit energystar.gc.ca. The ENERGY STAR name and the ENERGY STAR symbol are registered trademarks of the United States Environmental Protection Agency and are used with permission.

**To book an appointment with an energy advisor certified by NRCan, visit www.ecoaction.gc.ca/homes,
or call 1-800-O-CANADA (1-800-622-6232). TTY: 1-800-926-9105.**

Cat. No. M144-149/2009E (Print)
ISBN 978-1-100-11726-3
Cat. No. M144-149/2009E-PDF (On-line)
ISBN 978-1-100-11727-0

Aussi disponible en français sous le titre :
Tableau des subventions écoÉNERGIE Rénovation – Maisons
(En vigueur le 30 mars 2009)



Recycled paper