



ecoENERGY Retrofit for Homes

Thinking of ways to make your home more energy-efficient? Under ecoENERGY Retrofit – Homes, you can qualify for federal grants for home improvements that lower energy costs, improve comfort and reduce impacts on the environment.

Eligible Homeowners

Owners of single-family homes, detached, semi-detached and homes are eligible. Owners of most low-rise multi-unit residential buildings (MURBs) that are no more than 3 storeys high and some mixed-use buildings with at least 50 percent permanent residential space are also eligible.

Application Process

Before you start your energy upgrades, hire a local service organization (search at <http://oee.nrcan.gc.ca/residential/personal/new-home-improvement/contact-advisors.cfm?attr=4>) licensed by Natural Resources Canada (NRCAN), and they will send a certified energy advisor to perform a detailed, on-site evaluation of your home's energy use from the attic down to the foundation. You will receive 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. You must complete your energy 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.

Measures and Amounts:

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. Incentives are calculated using the grant amounts and eligibility requirements that are in effect at the time of the post-retrofit evaluation, and are subject to available funding.

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

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		MURB
	Single-Family Home 1st system	2nd system	
HEATING SYSTEM			
Replace your heating system with:			
• an ENERGY STAR® qualified gas furnace that has a 92.0% annual fuel utilization efficiency (AFUE) or higher	\$375	\$190	Same as single-family home
• an ENERGY STAR qualified gas furnace that has a 92.0 percent AFUE or higher and a brushless DC motor	\$625	\$315	
• an ENERGY STAR qualified gas furnace or oil furnace that has a 94.0 percent AFUE or higher and a brushless DC motor	\$650	\$350	
• an ENERGY STAR qualified gas furnace or oil 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	
• an ENERGY STAR qualified condensing gas boiler that has a 90.0 percent AFUE or higher	\$750	\$375	
• an ENERGY STAR qualified oil boiler that has an 85.0 percent AFUE or higher	\$750	\$375	

• an ENERGY STAR qualified oil furnace that has an 85.0 percent AFUE or higher	\$375	\$190	
• an ENERGY STAR qualified oil furnace that has an 85.0 percent AFUE or higher and a brushless DC motor	\$625	\$315	
In the case of mobile homes (only) • 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	
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.	\$4,375	N/A	
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)	\$1,750	N/A	*1,750
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)	\$1,625	N/A	*1,625
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 or 2. 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 000Btu/hour. See " Important Information about Air-Source Heat Pumps and Central Air Conditioners. " (*per equipment installed)	\$500	N/A	*\$500

N/A = Not applicable

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 accepted under the ecoENERGY Retrofit – Homes program.

To be ENERGY STAR qualified in Canada, in addition to the minimum requirement of SEER14.5, **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. The Air-Conditioning and Refrigeration Institute (AHRI, also known as ARI) reference number must also be referenced on the invoice. The energy advisor will request to see this information when performing the post-retrofit evaluation of your home.

Eligible Improvements / Retrofits

	Grant Amounts		
	Single-Family Home		MURB
	1st system	2nd system	
COOLING SYSTEM [Replacement Only]			
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. "	\$250	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 hvi.org . (*per equipment installed)	\$375	N/A	* \$375
DOMESTIC HOT WATER EQUIPMENT			
Install a solar domestic hot water system that includes solar collectors that meet the CAN/CSA F378.87 standard AND that provides a minimum energy contribution of 6 gigajoules per year (GJ/yr). For additional details regarding specific eligibility requirements, and for lists of eligible collectors and certified systems, visit the solar domestic hot water systems ¹ Web page.	\$1,250	N/A	Refer to the Web link to the left
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 related list of eligible domestic hot water equipment ² . (*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 related list of eligible domestic hot water equipment . (*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 ³ (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. Visit the eligible domestic hot water equipment Web page for a link to the list of eligible systems and their efficiencies. (*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

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		
	R-12 and less	Greater than R-12 and up to R-25	Greater than R-25 and up to R-35
Increase the insulation value of			
† your attic to achieve a total minimum insulation value of RSI 7 (R-40)	\$500	\$250	N/A
† your attic to achieve a total minimum insulation value of RSI 8.8 (R-50)	\$750	\$375	\$125

• your flat roof and/or cathedral ceiling to achieve a total minimum insulation value of RSI 5 (R-28)	\$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 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		
	Percent area	R-10 to R-23	Greater than R-23
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 units. See " Important Note about Semi-Detached and Row Houses. "	20%	\$125	\$250
	40%	\$250	\$500
	60%	\$375	\$750
	80%	\$500	\$1,000
	100%	\$625	\$1,250

BASEMENT HEADER INSULATION

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

CRAWL SPACE INSULATION

	Minimum Additional Insulation	
	R-10 to R-23	Greater than R-23
Insulate 100 percent of the crawl space's total exterior wall area, including the header area. See	\$500	\$1,000

“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).	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	
	\$190	
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.	10%	\$120
	20%	\$240

MURB Multiplier

MURB Multiplier (for insulation and air sealing grants)

The appropriate multiplier must be applied to the grant level identified based on the nature of the work done.

Visit the [Questions and Answers](#)⁴ section of the program Web site for a detailed description of eligible MURBs.

Number of dwellings	2-3	4-6	7-9	10-12	13-16	17+
Multiplier	1.0	1.5	2.0	2.5	3.0	4.0

DOORS/WINDOWS/SKYLIGHTS (heated space only)

	Single-Family Home	MURB
Replace windows and skylights with models that are ENERGY STAR qualified ⁵ for your climate zone. (*per unit replaced)	*\$40	*\$40
Grants for windows and skylights are based on the number of rough openings (RO) in which windows or skylights were replaced between the pre- and post-retrofit evaluations. Each RO is counted as one window or skylight. An RO is defined as the structurally stable opening created by the builder for the installation of the window unit (i.e. framing and glazing) or skylight. (Note that a bay window, which may be made up of several windows, is regarded as one RO.)		
Replace your exterior door(s) with an ENERGY STAR qualified model(s) for you climate zone. (*per unit replaced)	*\$40	*\$40
To be eligible for a grant, proof of ENERGY STAR qualification of windows, doors and skylights is required, such as the presence of an ENERGY STAR label on all of the replacement windows, doors or skylights indicating they are ENERGY STAR qualified for the house's climate zone. If the labels are removed by the installer, you should request them as proof, or request a copy of an invoice indicating		
<ul style="list-style-type: none"> the brand/product name the NRCAN model reference number or the manufacturer's model code the climate zone for which the windows, doors or skylights are qualified 		

WATER CONSERVATION

	Single-Family Home	MURB
<p>Replace your toilet with a low-flush or dual-flush toilet rated at 6 litres per flush or less that meets the Los Angeles Supplementary Purchase Specification (SPS) and has a flush performance of 350 grams or more. (*per unit replaced)</p> <p>A product list is available on the Veritec Consulting Inc. Web site at www.veritec.ca. Click "Reports" and select "ecoENERGY Eligible."</p>	*\$65 (maximum of 4 units per home)	*\$65 (maximum of 2 units per dwelling unit)

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 www.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.

For more information on the program or how to book an appointment with an energy advisor certified by NRCan, visit ecoaction.gc.ca/homes, call 1-800-O-CANADA (1-800-622-6232). TTY: 1-800-926-9105, or [contact us](#).

- ¹ List of solar domestic hot water systems at <http://oee.nrcan.gc.ca/residential/personal/retrofit-homes/solar.cfm?attr=4>
- ² List of eligible domestic hot water equipment at <http://oee.nrcan.gc.ca/residential/personal/retrofit-homes/retrofit-qualify-grant.cfm?attr=4>
- ³ List of eligible domestic hot water heaters at <http://oee.nrcan.gc.ca/residential/business/manufacturers/qualified-hvac-products.cfm#heaters>
- ⁴ Questions and Answers Section at <http://oee.nrcan.gc.ca/residential/personal/retrofit-homes/questions-answers.cfm?attr=4#GrantEligibility>
- ⁵ List of Energy Star qualified models at <http://oee.nrcan.gc.ca/residential/business/manufacturers/window.cfm?attr=4>