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EB-2010-0184

THE ONTARIO ENERGY BOARD

IN THE MATTER OF the *Ontario Energy Board Act*, 1998, S.O. 1998, c. 15, (Schedule B);

AND IN THE MATTER OF Assessments issued by the Ontario Energy Board pursuant to section 26.1 of the Ontario Energy Board Act and Ontario Regulation 66/10;

AND IN THE MATTER OF Rule 42 of the Rules of Practice and Procedure of the Ontario Energy Board.

BOOKLET OF MATERIALS FOR THE CROSS-EXAMINATION OF BARRY BEALE

Ontario Energy Board
FILE NO. EB-2010-0184
EXHIBIT No. KT 1, 2
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THE ONTARIO ENERGY BOARD

IN THE MATTER OF the *Ontario Energy Board Act*, 1998, S.O. 1998, c. 15, (Schedule B);

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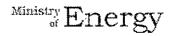
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TAB 4	"Solar technologies help build Ontario's green economy: McGuinty			
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TAB 5 "Home Energy Savings", Ontario, Ministry of Energy and Infrastructure				
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News Release 🖺



27 April, 2007

McGuinty Government Helps Homeowners Fight Climate Change

TORONTO — The Ontario government is investing \$24 million over four years to help homeowners save money and help fight climate change, Premier Dalton McGuinty announced today.

"We want to give homeowners the tools they need to save money and help reduce greenhouse gases," said Premier McGuinty. "This is another step in our plan to build a cleaner, greener future for Ontario."

The provincial program will provide homeowners up to \$150 toward a home energy audit. The goal is to conduct 130,000 audits over the next four years. Following the audit, homeowners will be eligible for a federal ecoENERGY grant, which provides financial support and Information for energy retrofits in homes.

"We are building a culture of conservation in Ontario," said Minister of Energy Dwight Duncan. "This program will reduce natural gas and electricity consumption, save homeowners money and help reduce greenhouse gas emissions by up to 260,000 tonnes."

An energy audit can show homeowners how to Improve energy efficiency for things such as cooling, hot water and insulation around the house. A typical homeowner could save about \$1,200 per year on their energy bills and reduce greenhouse gas emissions by 1-2 tonnes.

Rebates for home energy audits are just one of the ways the McGuinty government is helping Ontarians reduce greenhouse gases and protect the environment. Other initiatives include:

- Awarding 36 renewable energy projects under the Standard Offer Program, including one of the world's largest solar farms to be
- built in Sarnia
- Protecting 1.8 million acres of greenspace in the Greenbelt, providing a safe habitat for 66 species at risk, and
- Closing the single largest source of air pollution in the Greater Toronto Area the Lakeview Generating Station.

"Imagine an Ontario that is greener, cleaner and — at the same time — more productive than ever before," said Premier McGuinty. "Working and building together, that dream is within our reach."

Contacts

Premier's Media Office 416-314-8975

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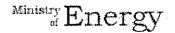
www.energy.gov.on.ca/index.cfm?fuseaction=english.news

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Backgrounder 🖺



Home Energy Audit Program

Purpose

The Home Energy Audit Program is a \$24 million 4-year energy conservation initiative that will subsidize home energy audits in Ontario.

An audit will evaluate the energy efficiency of a home and outline improvements to the heating, cooling, hot water heating and other uses of energy in the house that could result in energy savings.

Eligibility

Anyone who lives in Ontario and owns a single family home is eligible for the program. A single family home is defined as a detached or semi-detached home or low-rise multi-unit residential building. Low-rise residential buildings must be three stories or less with a building footprint of less than 600 square meters.

Rebate

The Home Energy Audit Program will provide a rebate of 50% of the cost of the pre-retrofit audit up to a limit of \$150. A pre-retrofit audit is an audit conducted before any renovations are undertaken to improve energy conservation in the home.

Program Details

The Ontario Home Energy Audit Program is linked to the federal ecoENERGY retrofit grant program. To be eligible for the provincial Home Energy Audit Program rebate a homeowner is regulred to use an auditor licensed by Natural Resources Canada. The audit must have occurred after the March 22nd date of the Ontario budget announcement about the program.

Step 1:

Homeowner hires an auditor licensed by Natural Resources Canada for a first or pre-retrofit audit. The first or pre-retrofit audit typically costs about \$300. Natural Resources Canada licenses home energy auditors and updates the list as auditors are licensed. There are currently several companies operating in Ontario.

More information is available at http://oee.nrcan.gc.ca/ . Click on Contact an Energy Advisor.

You can either enter the first three digits of your postal code or your province/territory to find an energy advisor near you or call our toll-free line 1 800 O-Canada (1 800 622-6232) or 1 800 926-9105 for the hearing impaired.

Step 2:

The auditor carries out the pre-retrofit audit and provides the homeowner with a report that contains recommendations on energy efficiency improvements.

Step 3:

Once the pre-audit is complete the auditor notifies the federal ecoEnergy program and the federal government notifies the provincial Home

Energy Audi	: Program.
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Step 4:

The provincial Home Energy Audit Program will issue a \$150 rebate cheque to the homeowner for the pre-audit.

A homeowner is not required to carry out a retrofit to receive the rebate.

Accessing The Federal ecoENERGYRetrofit Grant Program

If the homeowner chooses to pursue the recommendations in the audit, they could be eligible for the federal government's ecoENERGY retrofit grant program.

For more information on the federal program, go to http://oee.nrcan.gc.ca/residential/personal/home-improvement.cfm or call toll-free line 1 800 O-Canada (1 800 622-6232) or 1 800 926-9105 for the hearing impaired.

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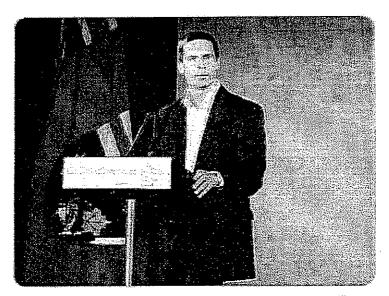
NEWS RELEASE

Office of the Premier

For Immediate Release June 20, 2007

HELPING ONTARIANS GO GREEN AND GET GREEN AT HOME

\$150 Million Home Retrofit Program And Solar Initiatives For Ontario
Homeowners



Premier McGuinty announces a \$150 million investment that will help Ontarians fight climate change at home by giving them the tools they need to save energy, save money and reduce their greenhouse gas emissions.

TORONTO-A \$150 million investment will help Ontario homeowners fight climate change, conserve energy and adopt green technologies, Premier McGuinty announced today.

"Ontarians know that fighting climate change presents a huge opportunity to save money and energy, right at home," said Premier Dalton McGuinty.

"Since 2003, we've been taking steps to fight climate change by making historic investments in renewable energy sources like solar and wind. The next step in our plan will help people fight climate change at home by giving them the tools they need to save energy, save money and reduce their greenhouse gas emissions."

Premier McGuinty unveiled a new bundle of programs to help Ontarians upgrade their homes, save money and help Ontario meets its greenhouse gas emissions targets. These programs will be funded through money set aside in the 2007 Budget.

They include:

- A Home Energy Retrofit Program that will provide up to \$5,000 for home energy retrofits that include Energy Star qualified furnaces for heating, solar domestic water systems and insulation
- A point-of-sale retail sales tax exemption for ENERGY STAR® light bulbs, decorative light strings, refrigerators, dishwashers, clothes washers, freezers, dehumidifiers and room air conditioners, purchased, rented or leased after July 19, 2007 and before July 20, 2008
- Setting a target of 100,000 installed solar systems across Ontario and creating a task force of industry experts and market specialists on how best to achieve this target
- Extending the retail sales tax rebate on qualifying solar, wind, micro hydro-electric and geothermal equipment to January 1, 2010
- Partnering with Ontario organizations to establish a one-stop shop where consumers can get information on how to go solar
- Launching a program for the industrial, commercial and institutional sector to encourage the use of solar thermal equipment
- Developing a program with Ontario's green energy retailers that helps Ontarians purchase 100 per cent green power, and
- A pilot project to provide zero-interest loans for homeowners to install renewable energy systems.

"These programs build on our government's efforts to make Ontario the centre of the green economy in North America," said Energy Minister Dwight Duncan. "Today's announcement builds on the over \$15 billion that is being invested in Ontario's energy sector, creating thousands of jobs in every corner of our province."

"By working together, we can reduce greenhouse gases and build a cleaner, greener Ontario for today, and for future generations," said Environment Minister Laurel Broten. "Today's announcement is moving Ontario forward and will help all Ontarians do their part to make our province cleaner and greener while keeping the economy strong."

"Climate change is a reality for each and every one of us. That means Energy conservation must be a priority," said Finance Minister Greg Sorbara. "Our initiative is a win-win situation for both consumers and the environment. This tax break will make it easier for consumers to make the right choice when making their purchases."

Ontario's Home Energy Retrofit Program and solar power initiatives are part of the McGuinty government's climate change plan that is delivering results for Ontarians. In the past week alone, the McGuinty government has:

- Made \$220 million in loans and grants available to help municipalities reduce greenhouse gas emissions by improving and retrofitting buildings
- Unveiled a \$17.5 billion transit plan for the GTA and Hamilton that would create 175,000 jobs during the construction of 52 projects and eliminate 10 megatonnes of carbon dioxide by

Page 3 of 3 Print this Page

2020

- Set ambitious but realistic targets to reduce greenhouse gases below 1990 levels six per: cent by 2014, 15 per cent by 2020 and an 80 per cent reduction by 2050
- Launched a \$650-million fund that will help secure the next generation of high-paying jobs for Ontarians by developing new clean and green technologies.

"Climate change is the defining issue of our generation — we've come a long way, but we have more to do, together," said McGuinty. "By helping Ontarians fight climate change at home, we're moving forward, together, towards a future that is greener and more innovative with a better quality of life and a stronger economy for all Ontarians."

Ministry pages:

• Energy

See also:

• Backgrounder: McGuinty Government Home Energy Retrofit And Solar Power Initiatives

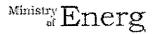
• Backgrounder: Accessing Ontario's Home Energy Retrofit Program

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Disponible en Français

www.premier.gov.on.ca

Backgrounder 📳



McGuinty Government Home Energy Retrofit And Solar Power Initiatives

The McGuinty government is launching a suite of programs and initiatives to help homeowners with energy retrofits and businesses to become more energy efficient.

Homeowner Retrofit Rebates

The province is investing \$88 million over five years to encourage homeowners to make their homes more energy efficient. Homeowners will be eligible to receive up to \$5,000 for energy retrofits recommended under the Ontario Home Energy Audit program. The same amount is available to homeowners under the federal government's ecoENERGY Retrofit Homes program. Retrofits covered under this program include:

- \$500 toward the installation of a solar domestic water system
- Up to \$500 toward the purchase of an ENERGY STAR qualified high-efficiency gas furnace
- Up to \$1,500 toward the installation of exterior wall insulation.

Industrial/Commercial/Institutional Solar Thermal Heat

The government is making \$14.4 million available over four years to encourage the industrial/commercial/institutional sector to convert to solar thermal heating. Ontario businesses, industries, schools, universities, municipalities and hospitals would receive 25 per cent of the cost of the installation of a solar thermal heating system from the province to a maximum of \$80,000. The federal government will also provide a contribution of 25 per cent under the ecoENERGY Renewable Heat Program. It is estimated that the program will generate 500 installations over four years.

Temporary Retail Sales Tax (RST) exemption on the purchase of qualifying ENERGY STAR household products

The government is providing a point-of-sale RST exemption for certain ENERGY STAR qualified household products purchased, rented or leased after July 19, 2007 and before July 20, 2008. The exemption will apply to refrigerators, dishwashers, clothes washers, freezers, dehumidifiers, room air conditioners, and qualifying ENERGY STAR light bulbs and decorative light strings. The RST exemption for qualifying ENERGY STAR products is expected to provide approximately \$36 million to Ontario consumers in 2007-08 and a further \$15 million in 2008-09.

To qualify:

- The product must be listed, at the time of purchase, as ENERGY STAR qualified by the Office of
- Energy Efficiency, Natural Resources Canada.
- The purchase must be a first-time sale, rental or lease for at least one year, of a new qualifying
- · appliance. A purchase order or sales contract must be entered into after July 19, 2007 and before July 20,
- 2008 and the qualifying appliance must be delivered on or before September 1, 2008.

Installation costs for qualifying built-in appliances and delivery charges for ENERGY STAR products are also eligible for the RST exemption.

Ontario PST rebate on renewable installations

renewable energy installations, the province has extended the PST rebate to January 1, 2010, which can provide additional savings.

Some Examples of Retrofit Measures, Estimated Costs and Rebates

The following are three examples of retrofits covered by the program, including the estimated costs, rebates to consumers, representative energy savings calculations, and the estimated reductions in greenhouse gas emissions per year.

A) Installing a New Solar Powered Hot Water System

The following are the estimated costs and rebates for installing a solar powered water system:

Estimated Costs

Solar water system: \$5,000 - \$6,000

Home energy audit: \$300

Rebates

• Ontario home energy audit rebate: \$150 (Ontario pays 50 per cent of cost, up to \$150)

Ontario PST rebate: \$170 - \$204

Ontario rebate: \$500Federal rebate: \$500

Total rebates: \$1320 to \$1354

A typical family of four will **also** save approximately 2700 kWh or \$325 per year by supplementing their electric water heater with a solar water heater. If the solar water heater is supplementing a gas water heater, the savings would be \$200 per year.

Annual estimated GHG reductions would be 600 kg if replacing an electric water heater, or 760 kg if replacing a gas water heater.

B) Installing a high-efficiency furnace with a high-efficiency fan motor (to replace a 20-year old gas furnace)

The following are the estimated costs and rebates for installing a high-efficiency furnace and motor.:

Estimated Costs

High efficiency furnace: \$4000Home energy audit: \$300

Rebates

· Ontario home energy audit rebate: \$150

Ontario rebate: \$500

Ontario Power Authority rebate: \$250

Enbridge rebate: \$100Federal rebate: \$500

Total rebates: \$1500

A typical family of four will **also** save approximately \$330 per year (470 cubic meters of gas and 800 kWh of electricity).

Annual estimated greenhouse gas emissions reductions would be 1070 kg for replacing an older furnace with a high-efficiency furnace.

C) Replacing old central air system (10-15 years old) with an Energy Star central air system

The following are the estimated costs and rebates for installing an Energy Star central air system:

Estimated Costs

• Energy Star central air conditioner: \$3000

· Home energy audit: \$300

Rebates

Ontario home energy audit rebate: \$150

• Ontario rebate: \$200

• Ontario Power Authority rebate: \$350

Enbridge rebate: \$100Federal rebate: \$200

Total rebates: \$1000

A typical family of four will **also** save approximately \$40 per year (350 kWh of electricity).

Annual estimated greenhouse gas emissions reductions would be 75 kg for replacing an old air conditioner with a new Energy Star air conditioner.

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News Release M

Ministry Energy

20 November, 2007

Ontario is North America's Hot Spot for Solar Energy

\$14,4M Rebate Program Will Boost Key Alternative Energy Source

TORONTO — A program that will provide businesses with up to \$80,000 to install solar heating systems is the latest tool Ontario is using to become North America's leader in solar power.

Ontario is rapidly increasing its use of solar energy, with over 100 contracts signed for potential solar energy projects across the province ranging in size from residential systems to large-scale solar farms capable of powering thousands of homes.

Now Ontario's businesses, industries and institutions have another incentive to get in on the action.

The Ontario Solar Thermal Heating Incentive matches rebates provided by the federal ecoENERGY for Renewable Heat program. Each program provides up to 25 per cent of the cost of purchasing and installing a solar hot water or solar air heating system, to a maximum of \$80,000.

Gerry Phillips, Ontario's new Energy Minister has announced an agreement with the federal government which will help the Province Implement this four-year, \$14.4 million rebate program in conjunction with Natural Resources Canada to encourage businesses, institutions and industry across Ontario to Install solar heating systems.

"We are delighted to have this important agreement in place," said Ontario Energy Minister Gerry Phillips. "These solar installations will help achieve important reductions in the use of fossil fuel-based energy for space and water heating. That is why we are supporting this important rebate program so significantly."

The long-term benefits of solar energy are immense. In Canada's commercial and institutional sectors, up to 10 per cent of energy use is for water heating and over 50 per cent is for space heating. This program will support the installation of solar systems that offset both of these loads. For space heating, savings from solar systems can approach 50 per cent of building heating loads.

Other key McGuinty government solar energy initiatives include:

- Setting a target of installing 100,000 solar roofs across the province
- Establishing the Ontario Home Energy Retrofit Program provides up to \$5,000 for home energy retrofits, including \$500 rebated on the
- Installation of solar domestic water systems
- Extending the provincial sales tax (PST) rebate on qualifying solar (and other renewable energy) equipment to January 1, 2010
- Funding "Go Solar" a one stop information shop for Ontarians Interested in Installing solar energy systems to heat water or generate electricity - www.gosolarontario.com

To participate in the Ontario Solar Thermal Heating Incentive, applicants must apply through the federal ecoENERGY for Renewable Heat program. The province's program applies to those Ontario applications submitted to the federal program on or after June 20, 2007 (when the provincial program was initially announced).

Interested applicants should start by visiting NRCan's ecoACTION website at www.ecoaction.gc.ca or by calling NRCan information hotiline at 1-877-722-6600. Then, more Information about Ontario's matching incentive can be found on the Ministry of Energy website at www.energy.gov.on.ca or by calling the Ministry's information hotline at 1-888-668-4636.

-30-

Citizen and consumer information is available by calling 1-888-668-4636

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Solar Technologies Help Build Ontario's Green Economy

December 7, 2009 1:29 PM

McGuinty Government Increases Incentives For Ontario Organizations To Go Green

Ontario has dramatically increased the incentive available to organizations that install solar hot water systems.

The Ontario Solar Thermal Heating Initiative (OSTHI) will now provide up to \$400,000 per project -- an increase of five times over the previous \$80,000 maximum. Matched by the federal government, applicants can now obtain up to \$800,000 -- important support for projects that can cost as much as \$1.5 million or more.

OSTHI is open to industries, businesses and public institutions including schools, hospitals, municipalities, municipally owned utilities, industrial associations, non-profit organizations and energy service companies.

OSTHI supports the province's goals of creating a culture of conservation by encouraging the development of large scale solar thermal infrastructure projects, which in turn generate energy savings and support the creation of green jobs in communities across the province. Solar installations can reduce the use of fossil fuel-based energy for space and water heating by as much as 25 to 50 per cent. The OSTHI program will support the installation of solar systems that offset each of these loads.

QUICK FACTS

- OSTHI has invested \$6-million towards 307 projects, resulting in \$25 million in investments.
- Among the 101 projects installed and running, OSTHI has supported installations in 5 hospitals; 6

- senior's homes; 7 non-profit housing complexes; and 15 recreation buildings.
- To date, participating industrial, commercial and institutional organizations have projected savings of 115,332 Gigajoules (GJ) of energy and over \$2.25 million in energy costs, per year. This is the equivalent of taking 682 cars off the road annually.

LEARN MORE

- Frequently Asked Questions about the Ontario Solar Thermal Heating Incentive (OSTHI)
- Get more information about the Ontario Solar Thermal Heating Initiative and how it works.
- Read more about the Green Energy Act and how it supports Ontario's efforts to support more renewable energy and build a culture of conservation.
- Find out what Ontario doing to combat climate change.

Ministry of Energy and Infrastructure ontario.ca/MEI

"Ontario is the North American leader in the development and use of renewable energy. Solar thermal energy will play a large and growing role—reducing energy demand, reducing our environmental footprint, and generating significant cost savings."

Hon. Gerry PhillipsMinister of Energy and Infrastructure

"Ontario's support for solar and solar thermal technologies is helping to grow the industry in this provinceand ensuring that solar plays a key role in Ontario's economy and green energy future."

- Elizabeth McDonald President of CanSIA

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Frequently Asked Questions about the Ontario Solar Thermal Heating Incentive (OSTHI)

December 7, 2009 1:28 PM

1. What is it?

OSTHI helps the province's industrial, commercial and institutional (ICI) sectors cut their energy costs by supporting solar thermal energy systems, which lower the province's carbon footprint, supports the growth of green jobs and helps to build a culture of conservation.

2. Why is it important?

Solar installations can help reduce the use of fossil fuel-based energy for space and water heating by as much as 25 to 50 per cent depending on an operation's water use, the season and the size of the system. Water and space heating can represent a large percentage of operating costs. That's why Ontario launched this program in 2007, with funding of \$14.4 million

3. Why the change to the program?

To further support the objectives of the Green Energy Act, Ontario is significantly increasing the perproject funding available for solar hot water projects under the program — moving from a maximum of \$80,000 per project to a maximum of \$400,000. This change will be made retroactive to March 1, 2009. Ontario will also continue to provide up to \$80,000 per project for solar hot air projects.

4. How does the program work?

The Ontario Solar Thermal Heating Incentive provides rebates matched by the federal government's ecoENERGY for Renewable Heat Program. The province's program applies to those Ontario applications submitted to the federal program on or after June 20, 2007 and before March 31, 2011.

Each program provides an incentive payment based on a rate per square metre of collector area multiplied by a preset collector-specific performance factor (list available at http://www.ecoaction.gc.ca/ecoenergy-ecoenergie/heat-chauffage/v2008/collectors-capteurs-eng.cfm)

5. Who is eligible?

Industries, commercial businesses and public institutions (schools, hospitals, municipalities, municipality owned utilities, industry associations), non-profit organizations and energy service companies are eligible. They must be located in Ontario, and install an eligible solar water or solar air heating system.

Ministry of Energy and Infrastructure ontario.ca/MEI

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MINISTRY OF ENERGY / MINISTRY OF INFRASTRUCTURE

Home / Energy / Conservation / Home Energy Savings

HOME ENERGY SAVINGS

On March 31, 2010, the federal government announced funding cuts to the <u>ecoEnergy Retrofit Homes Program</u>. This means that homeowners who booked a pre-retrofit audit before March 31, 2010 can access grants from both the federal government as well as the Ontario Home Energy Savings program. Until further notice, homeowners who booked an audit after March 31, 2010 can only access grants only from the Ontario Home Energy Savings Program.

The Government of Ontario is committed to encouraging conservation, and will continue efforts to help residents achieve their home energy efficiency goals.

The following information is provided to help answer some of your questions about how the federal announcement might affect you. Please visit this website again in the future for updates.

1. What effect does this announcement have on the Ontario Home Energy Savings Program (HESP)?

Due to the sudden nature of the federal announcement to cancel a partnership program, Ontario is reviewing its options to create and deliver effective conservation programs to Ontarians. Until such time a decision is made and notice given, Ontario will continue to fund new pre-retrofit audits and retrofits. This means we will continue to pay 50% of your home's audit, up to \$150. Audits will qualify you for up to \$5,000 in provincial retrofit grants. Please continue to check back here for further information and updates.

2. Can I still enter the federal ecoENERGY-Retrofit program?

No. Effective March 31, 2010, the federal program is not providing grants for new pre-audits that are booked. Only the homeowners who have already booked or completed a pre-retrofit evaluation by March 31, 2010 remain eligible to apply for a federal retrofit grant.

3. How does the date that I book my pre-retrofit audit affect my ability to access grants?

Homeowners who scheduled pre-retrofit evaluations by March 31, 2010 remain eligible to apply to both the HESP and ecoENERGY programs. Homeowners are reminded that they are required to complete their renovations and follow-up with a post-retrofit evaluation and submit their application by March 31, 2011.

Homeowners who scheduled a pre-retrofit evaluation after March 31, 2010 remain eligible to apply to the HESP program only.

4. How much of a retrofit grant am I eligible for?

Homeowners who scheduled pre-retrofit evaluations by March 31, 2010 remain eligible to apply to both HESP and ecoENERGY for a maximum of up to \$10,000. Homeowners who scheduled a pre-retrofit evaluation after March 31, 2010 remain eligible to apply to the HESP program only, with rebates to a maximum of \$5,000.

5. I have already had a pre-retrofit energy evaluation. What is the deadline for applying for a grant?

The deadline for applying for a grant is 18 months from the time of the pre-ietrofit evaluation or March 31, 2011, whichever comes first. Homeowners who have completed the eligible work under the ecoENERGY Retrofit – Homes program within their 18-month period or before March 31, 2011, (whichever comes first) are eligible for a grant. However, it is suggested that you complete your energy upgrades well in advance of the deadline in order to allow enough time for your post-retrofit evaluation.

6. I have more questions about the recent changes to the federal ecoENERGY Retrofit - Homes program. Who should I contact?

Please call Natural Resources Canada at 1-800-O-CANADA (1-800-622-6232). The call agents from the federal program will be able to provide you with more information.



For homeowners who booked a pre-retrofit home energy audit on pre-retrofit home energy audit or before March 31, 2010 click after March 31, 2010 click here to enter the OHESP site

For homeowners who booked a here to enter the OHESP site

CONTACT US ACCESSIBILITY PRIVACY

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