

# **PROGRAM CONTENT**

Hawkesbury Hydro Inc. would like all of its customers to benefit from this energy conservation program.

## **Industrial customer program**

Hawkesbury Hydro Inc. intends to give incentives to industries who will purchase energy efficient equipments recognized by EnerGuide. Hawkesbury Hydro Inc. strongly believes that this incentive program will encourage major industries in our community to improve their energy management and consequently contribute to the reduction of electricity generation and reduce the greenhouse gases that contribute to climate change.

Industrial consumers are responsible for close to 40% of energy used in the province of Ontario. Targeting this sector of our community will definitely make them more conscious of the importance of energy conservation and GHG emissions.

### **ENERGY-EFFICIENT EQUIPMENT**

As part of its industrial program, Hawkesbury Hydro Inc. will give incentives to industries that will purchase energy efficient equipment identified as **ENERGUIDE PRODUCT FOR INDUSTRY**. Hawkesbury Hydro Inc. will help defray the cost of the acquired equipment. Hawkesbury Hydro Inc. will reimburse 10% of the purchase price of energy-efficient equipment purchased by an industrial customer (with a proof of purchase) up to a maximum of \$1,000 per industry as per Appendix A.

### **INTERVAL METERING**

In order to respond to some initiatives from the Ontario Government, Hawkesbury Hydro Inc. would like to promote the installation of interval metering for its industrial customers. Hawkesbury Hydro Inc. will contribute \$1,000 to defray the cost and installation of an interval meter. Furthermore, existing customers with interval meters will also be eligible for a refund of \$1,000 for just and equitable reasons. At this point in time, Hydro Hawkesbury Inc. has 7 industrial customers with interval meters. Hydro Hawkesbury Inc. strongly believe that this will help load shifting.

## **Commercial and residential customer program**

As part of its program, Hawkesbury Hydro Inc. will also include its commercial and residential customers in this important energy conservation program.

Hawkesbury Hydro Inc. will strongly encourage the purchase of Energy efficient home and commercial equipment and appliances. Hawkesbury Hydro Inc. will give incentives to all customers who acquire an energy efficient equipment and/or appliances for their home and business.

Hawkesbury Hydro Inc. will honor the ENERGY STAR high efficiency product on the market. Appendix A clearly identifies the incentives Hawkesbury Hydro Inc. will offer its customers on energy conservation equipment and appliances upon presentation of proof of purchase.

The industrial customer program along with the commercial and residential customer program are part of our main objectives. We want our customers to benefit immediately of all incentives available to reduce their consumption and our efforts will be deployed towards the incentives to our customers. The total budget amount for this program is expected to be \$36,772.

## **Communication & Awareness**

Hawkesbury Hydro Inc. would like to play a role in energy conservation by enlightening its customers. Hawkesbury Hydro Inc. would like to offer its customers helpful tips by means of a monthly newspaper publication. (*Tip of the month*) Hawkesbury Hydro Inc. will specifically identify to its customers what can be done to save energy, and by doing so, making them realize that they are contributing to a cleaner environment while saving energy.

## **Promotion**

Hawkesbury Hydro Inc. would like to purchase Energy Star qualified light bulbs and offer them to its customers at no cost. (one per household) Customers will have the opportunity to experiment an inexpensive product that Hawkesbury Hydro Inc. believes would have a somewhat important impact on energy conservation.

## **Power System and Load study**

Our next program will consist of a power system and load flow analysis to determine future betterments to improve our line loss. Our goal is to go forward with this program if funds are still available from our third tranche.

Hawkesbury Hydro Inc. would like to perform this study to reach the optimization of its distribution system in order to improve and reduce the energy lost through its system, reduce generation and GHG. Hawkesbury Hydro Inc. budget expectations for this type of study is \$25,000.

# Eligible Products

## Industrial program

Hawkesbury Hydro Inc. will honor the EnerGuide program for industry.

*The product categories that will be recognized by Hawkesbury Hydro Inc. are:*

### Electric Motors

Electric motors account for a very large share of total industrial electricity use - typically 70% to over 90%, depending on the industry. The 1 hp to 200 hp AC induction motors account for approximately 40% to 50% of industrial motor use and account for the vast majority of the off the shelf unit sales.

For eligible models and information please refer to the EnerGuide for industry web site at: [EnerGuide for Industry](#)

### Lighting Products

High-intensity discharge (HID) lighting systems are widely used in applications where high light levels are desired for large areas, such as industrial and street lighting. Similar to fluorescent lighting systems, all HID lighting systems require a ballast to operate. Traditionally, magnetic ballast designs were the only choice available for HID lighting systems. Today, high-efficiency electronic HID ballasts are available that provide improved lighting quality and reduce lighting electricity use by 10 to 30 percent.

For eligible models and information please refer to the EnerGuide for industry web site at: [EnerGuide for Industry](#)

### Heating, Ventilation and Air-Conditioning (HVAC)

High-efficiency unitary air-conditioning units provide the same reliable space cooling as standard efficiency models, but they use up to 25 percent less electricity.

For eligible models and information please refer to the EnerGuide for industry web site at: [EnerGuide for Industry](#)

# **Commercial and residential program**

## **Clothes Washers**

Standard-size clothes washers in 2004 must be at least 36 percent more efficient than the minimum federal energy performance standard in *Canada's Energy Efficiency Regulations* to qualify for the ENERGY STAR mark. Standard-size clothes washers in 2004 must have a modified energy factor (MEF\*) of at least 40.21 to be ENERGY STAR qualified. This is a performance level increase from the previous year's level of 35.68. ENERGY STAR qualified clothes washers must have advanced design features that deliver cleaning performance while using less energy and 30 to 50 percent less water. The washer extracts more water from clothes during the spin cycle. This reduces the drying time, saves energy and wear and tear on your clothes.

For eligible models please refer to the Energy Star web site at: [ENERGY STAR](#)

## **Refrigerators**

Standard-size refrigerators in 2004 must be at least 15 percent more efficient than the minimum federal energy performance standard in *Canada's Energy Efficiency Regulations* to qualify for the ENERGY STAR mark. The previous performance level was 10 percent. Qualified compact refrigerators will continue to exceed the minimum Government of Canada energy efficiency standards by at least 20 percent. ENERGY STAR qualified refrigerators typically have a more energy-efficient compressor and better insulation than conventional models. They may also have an "Energy Saver" switch that allows consumer to adjust how much energy the refrigerator use to keep food fresh.

For eligible models please refer to the Energy Star web site at: [ENERGY STAR](#)

## **Freezers**

ENERGY STAR qualified standard-size freezers must exceed minimum Government of Canada energy efficiency standards by at least 10 percent. Compact freezer models must exceed minimum Government of Canada energy efficiency standards by at least 20 percent

For eligible models please refer to the Energy Star web site at: [ENERGY STAR](#)

## Dishwashers

Dishwashers must exceed the minimum federal energy performance standard in *Canada's Energy Efficiency Regulations* by at least 25 percent to qualify for the ENERGY STAR mark. Typically, models with an EnerGuide energy consumption rating of less than 455 kWh/year qualify. Many ENERGY STAR dishwashers use "smart" sensors that adjust the wash cycle and the amount of water to match the load. They may also have an internal heater to boost the temperature of incoming water.

For eligible models please refer to the Energy Star web site at: [ENERGY STAR](#)

## Bottled-Water Coolers

Bottled-water coolers that dispense cold water or both cold and room-temperature water must have standby energy consumption of no more than 0.16 kWh/day (standby energy refers to the energy required to maintain the water at an appropriate dispensing temperature) to qualify for the ENERGY STAR mark. Bottled-water coolers that dispense both hot and cold water must have standby energy consumption of no more than 1.20 kWh/day.

For eligible models please refer to the Energy Star web site at: [ENERGY STAR](#)

## Room Air Conditioners

ENERGY STAR qualified room air conditioners use at least 10% less energy than conventional models. The following table shows the energy efficiency ratio (EER) requirements for the various styles and cooling capacities. The ENERGY STAR symbol may also appear on the EnerGuide label to show that the unit is ENERGY STAR qualified.

Style	Btu / hr	EER (Window-Mounted)	EER (Through-the-Wall)
Standard	< 6 000	>= 10.7	>= 9.9
	6 000 to 7 999	>= 10.7	>= 9.9
	8 000 to 13 999	>= 10.8	>= 9.4
	14 000 to 19 999	>= 10.7	>= 9.4
	>= 20 000	>= 9.4	>= 9.4
Casement-only	N/A	>= 9.6	N/A
Casement-slider	N/A	>= 10.5	N/A

For eligible models please refer to the Energy Star web site at: [ENERGY STAR](#)

## Central Air Conditioners

ENERGY STAR qualified central air conditioning systems are about 20% more efficient than standard models. The energy efficiency of this product is measured by a Seasonal Energy Efficiency Ratio (SEER) and an Energy Efficiency Ratio (EER). Typical residential systems are "split" with a separate indoor evaporator unit in the furnace ducting and an outdoor condenser unit. There are also "single package" systems that have the evaporator and condenser in one unit. The following levels must be met or exceeded to qualify for ENERGY STAR:

Type	SEER	EER
Split	$\geq 13.0$	$\geq 11.0$
Single Package	$\geq 12.0$	$\geq 10.5$

Single package units with electric air-conditioning and gas heating cannot qualify for ENERGY STAR in Canada.

For eligible models please refer to the Energy Star web site at: [ENERGY STAR](#)

## Residential Furnaces (forced-air)

Customers switching from electric heating to gas or oil heating will also be eligible for incentives. Residential gas or oil furnaces must have an annual fuel utilization efficiency (AFUE) rating of 90 or higher to qualify for the ENERGY STAR mark. Some high-efficiency furnaces using a variable-speed direct current (DC) motor to run the air circulation fan, can significantly reduce electricity consumption while providing better heat distribution.

For eligible models please refer to the Energy Star web site at: [ENERGY STAR](#)

## Air Source Heat Pumps

ENERGY STAR qualified air-source heat pumps are about 20% more efficient than standard models. The energy efficiency of this product is measured by a Heating Seasonal Performance Factor (HSPF), a Seasonal Energy Efficiency Ratio (SEER) and an Energy Efficiency Ratio (EER). Typical residential systems are "split" with heat exchanging coils located indoors in the furnace ducting and outdoors with the compressor. There are also "single package" systems that have both sets of coils in one unit. The following levels must be met or exceeded to qualify for ENERGY STAR:

Type	HSPF (Region 5)	SEER	EER
Split	$\geq 8.0$	$\geq 13.0$	$\geq 11.0$
Single Package	$\geq 7.6$	$\geq 12.0$	$\geq 10.5$

For eligible models please refer to the Energy Star web site at: [ENERGY STAR](#)

## **Ground-Source Heat Pumps**

Ground-source heat pumps use the thermal energy of the ground or groundwater to provide a source of heating and/or cooling for a home. There are three basic types: 1) closed loop; 2) open loop; and 3) direct expansion. The cooling function is measured by an Energy Efficiency Ratio (EER), and the heating function is measured by a Coefficient of Performance (COP). The higher the EER or COP number, the more efficient the heat pump is. ENERGY STAR qualified ground-source heat pumps must meet or exceed the following EER and COP levels:

<b>Product Type</b>	<b>EER</b>	<b>COP</b>
Closed Loop	14.1	3.3
Open Loop	16.2	3.6
Direct Expansion	15.0	3.5

For eligible models please refer to the Energy Star web site at: [ENERGY STAR](#)

## **Programmable Thermostats**

Programmable thermostats must have at least two different programming periods (for weekday and weekend programming) and at least four possible temperature settings (i.e., wake, day, evening, sleep) to qualify for the ENERGY STAR mark. The thermostat should also be shipped from the factory with pre-programmed settings.

For eligible models please refer to the Energy Star web site at: [ENERGY STAR](#)



## Consumer Electronics

Many consumer electronic products continue to use electricity even when switched off, as some power is needed to accept commands from the remote control and maintain items in memory, such as the time, date, pre-set recording events and other user-selected options. ENERGY STAR<sup>®</sup> qualified televisions, VCRs, TV/VCR combinations and DVD or audio products will consume up to 75 percent less electricity than conventional products when they are turned off. This could add up to significant savings in electricity and greenhouse gas emissions if everyone bought an ENERGY STAR labeled consumer electronic product.

Electronic Equipment	ENERGY STAR Qualifying Product	Conventional Product
Televisions	Consumes 3 watts or less when turned off	Consumes up to 12 watts when turned off
VCRs	Consumes 4 watts or less when turned off	Consumes up to 13 watts when turned off
TV/VCR Combinations	Consumes 6 watts or less when turned off	Consumes up to 20 watts when turned off
DVD Products	Consumes 3 watts or less when turned off	Consumes up to 10 watts when turned off
Audio Products*	Consumes 2 watts or less when turned off	Consumes up to 7 watts when turned off

For eligible models please refer to the Energy Star web site at: [ENERGY STAR](#)

## Windows and Sliding Glass Doors

Energy-efficient windows and sliding glass doors will save you money by reducing your energy costs. Windows and sliding glass doors are now being added to the growing list of products in Canada that can qualify for the ENERGY STAR<sup>®</sup> international symbol for energy efficiency.

For eligible models please refer to the Energy Star web site at: [ENERGY STAR](#)

## Appendix A

# Hydro Hawkesbury Inc.

**DSM - Rebates on energy efficient appliances \*\* & accessories**

\*\* Appliances must be identified as "Energy Star"

**Customer must provide Hydro Hawkesbury Inc. with original receipt**

### APPLIANCES

	Refund:	Maximum of:
Refrigerator	15%	\$ 500
Dishwasher	15%	\$ 300
Microwave	15%	\$ 300
Clothes washer	15%	\$ 300
Freezers	15%	\$ 300
Bottled water coolers	15%	\$ 300

### ACCESSORIES

Programmable thermostats	20%	\$ 300
Residential furnases	15%	\$ 500
Air source heat pumps	15%	\$ 500
Ground source heat pumps	15%	\$ 500
Consumers electronics	20%	\$ 300
Windows & sliding doors	15%	\$ 500
Room air conditionners	15%	\$ 300
Central air conditionners	15%	\$ 500



Natural Resources Canada    Ressources naturelles Canada

Ottawa, Canada  
K1A 0E4

October 29, 2004

Mr. Michel Poulin  
Manager  
Hawkesbury Hydro Inc.  
850 Tupper Street  
Hawkesbury, Ontario  
K6A 3S7

Dear Mr. Poulin,

Congratulations on becoming an ENERGY STAR Participant! Enclosed is your copy of the signed Participant Administrative Arrangement and a CD with the logos and logo use guidelines. When you use the logo on promotional material, I would appreciate your sending me a draft version so I can ensure that the logo is correctly used.

We look forward to your participation in the ENERGY STAR initiative. If you have any questions or concerns, please do not hesitate to contact me at (613) 947-5001 or [kdceg@nrcan.gc.ca](mailto:kdceg@nrcan.gc.ca).

Sincerely,

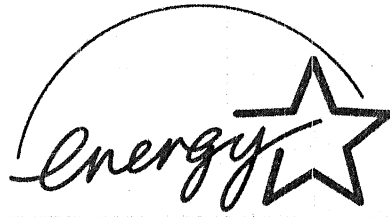
Kathy Deeg  
Account Manager – Commercial Sector  
Equipment Standards and Labelling  
Office of Energy Efficiency  
1 Observatory Cres., Bldg. #1, 2<sup>nd</sup> Floor  
Ottawa ON K1A 0E4

Canada



Natural Resources  
Canada

Ressources naturelles  
Canada



*The International ENERGY STAR® Symbol in Canada*

## **General Participant Administrative Arrangement**

*between*

>> **Office of Energy Efficiency,  
Natural Resources Canada**

*and*

>> **Hawkesbury Hydro Inc.**

*a Participant in promoting the international ENERGY STAR  
symbol in Canada*

*This document is a voluntary arrangement between Natural  
Resources Canada's Office of Energy Efficiency and organizations  
that manufacture, sell or promote products that meet the ENERGY  
STAR levels of energy performance.*

*This Administrative Arrangement sets out the guidelines for  
organizations that wish to use the ENERGY STAR mark to identify  
and/or promote products that meet the high-efficiency technical  
specifications.*

**Canada**



# General Participant Administrative Arrangement

*The International ENERGY STAR® Symbol in Canada*

## **General Terms**

"ENERGY STAR® Participant" in Canada is defined as the representative who signs the Administrative Arrangement on behalf of a company or organization and makes a commitment to ensure that the participation guidelines are followed. In this document, the representative or organization is referred to as the ENERGY STAR Participant.

Natural Resources Canada's (NRCan's) Office of Energy Efficiency (OEE) is responsible for developing criteria promoting ENERGY STAR as it relates to energy-using products and equipment.

## **Participant's General Commitments**

The ENERGY STAR Participant recognizes ENERGY STAR as a collaborative effort between the public and private sectors – an effort intended to promote products and equipment that use less energy, while providing the same or better performance than those with conventional designs. The ENERGY STAR Participant wishes to use the ENERGY STAR name and/or symbol in association with qualified products or equipment.

The ENERGY STAR Participant agrees to use its formal alliance with NRCan and the ENERGY STAR registered mark to promote energy efficiency as a simple and desirable option for organizations and consumers who wish to participate in Canada's climate change program, reduce greenhouse gas (GHG) emissions, protect the environment and help Canadians save on their energy bills. The ENERGY STAR Participant agrees that it is important to maintain the meaning and build the reputation of the ENERGY STAR registered mark as a trustworthy symbol for energy-efficient products, in order to effectively promote energy efficiency and reduce GHG emissions. Improving energy efficiency reduces greenhouse gas emissions and helps slow climate change.

## **Participant's Commitments for Product Efforts**

The ENERGY STAR Participant has read the following text and attached supporting documents and agrees to fulfill all requirements:

### ***ENERGY STAR Participant Commitment Form – Canada***

The Commitment Form identifies the scope of the Participant's activities under ENERGY STAR. The Commitment Form applies to organizations that manufacture, distribute and sell products, as well as those engaged in promoting products that meet ENERGY STAR performance levels. The Commitment Form also identifies a responsible party for each area of participation and for updating NRCan's OEE on the efforts undertaken through the Arrangement.



*The Full Guidelines for Reproducing, Applying and Using  
the ENERGY STAR Symbol – Canada*

The Full Guidelines describe how the ENERGY STAR name and registered mark may be used. The Participant will adhere to these guidelines and ensure that its authorized representatives – such as advertising agencies, dealers and distributors – also comply.

*ENERGY STAR Technical Specifications – Qualified Products*

The Participant must ensure that the products labelled, promoted or targeted for specific programs by the organization also meet the performance levels for using the ENERGY STAR mark on, and/or in association with, products.

***Participant's Commitments for Reporting***

ENERGY STAR participants must report on the progress and outcomes of their activities as a condition of participation. This allows NRCan to evaluate how well the Participant is meeting its objectives and to determine the impact of the Participant's activities on reducing GHG emissions. In consultation with the Participant, the data will also be used to promote the organization's efforts on the ENERGY STAR Web site and in other related promotional material and public recognition activities.

Where applicable, the Participant will do one or more of the following:

1. Develop and submit, within two months of signing this Administrative Arrangement, a plan outlining how and where the ENERGY STAR symbol will be used in promoting and/or advertising products that meet the technical specifications of ENERGY STAR. If applicable, the ENERGY STAR Participant will also submit an outline of activities that use incentives to promote the use of ENERGY STAR qualified products;
2. Provide NRCan with information regarding the success of its promotional activities, in six-month segments. These data will assist NRCan in setting baseline information and gauging impact. These data will be considered confidential and will be used by NRCan for evaluation purposes only;
3. Promote all ENERGY STAR qualified products in accordance with the Full Guidelines. The ENERGY STAR symbol will appear on or beside the qualified product(s);
4. Promote itself as an ENERGY STAR organization by publicly stating that the organization promotes ENERGY STAR qualified products; and



5. Train staff or members on ENERGY STAR and its objectives, in order to:

- ensure that those who deal with consumers can answer questions about how and what products qualify for the ENERGY STAR symbol;
- provide information on the proper use of the ENERGY STAR symbol; and
- provide correct information on how to describe ENERGY STAR and product eligibility in promotional literature and on Web sites.

### ***Performance for Distinction***

As part of its commitments, NRCan will undertake various initiatives to recognize and/or support the efforts of ENERGY STAR participants. These include providing special recognition through specific case studies, energy efficiency awards, news articles and features on the ENERGY STAR Web site.

To earn this distinction, the ENERGY STAR Participant may consider the following voluntary measures:

1. Provide quarterly, written updates to NRCan on the efforts undertaken by the ENERGY STAR Participant to promote awareness of ENERGY STAR and its messages;
2. Improve the energy efficiency of the organization's facilities;
3. Purchase ENERGY STAR qualified products;
4. Revise the organization's purchasing or procurement guidelines to include ENERGY STAR technical specifications;
5. Provide procurement officials with contact information from NRCan for periodic updates and co-ordination;
6. Circulate general ENERGY STAR product information to employees for use when making purchases for their homes; and
7. Post information on its Web site about ENERGY STAR qualified products that are available for federal and other institutional purchasers.

### ***NRCan's Commitments to the ENERGY STAR Mark***

NRCan will undertake various efforts to build awareness, maintain the credibility of the ENERGY STAR name and registered mark, use the guidelines consistently and promote the benefits of energy-efficient products. NRCan will strive to:

1. Increase awareness of the ENERGY STAR name and registered mark across the residential, commercial and industrial sectors by distributing key messages on the benefits of ENERGY STAR qualified products;



2. Provide easy access through the Internet and other means to new versions of the Full Guidelines, the ENERGY STAR Technical Specifications – Qualified Products and the ENERGY STAR Participant Commitment Form – Canada;
3. Maintain a Web site that furnishes information on Canada's efforts and responsible key contact for ENERGY STAR; and
4. Publicly recognize the ENERGY STAR Participant, through the Web site and other mechanisms, for its efforts in promoting the ENERGY STAR symbol.

### ***Disclaimers***

The ENERGY STAR Participant will not construe, claim or imply that its participation in any activities promoting ENERGY STAR constitutes OEE/NRCan approval, acceptance or endorsement of anything other than the Participant's commitment. The ENERGY STAR Participant understands that its participation in this initiative does not constitute OEE/NRCan endorsement of the ENERGY STAR Participant or its products. The ENERGY STAR Participant understands that the activities it undertakes in connection with ENERGY STAR are voluntary and are not intended to provide services to the Government of Canada. As such, the ENERGY STAR Participant will not submit a claim for compensation to any agency of the Government of Canada.

### ***Entry Into Effect and Duration of Administrative Arrangement***

#### ***Duration of Arrangement***

Both parties concur that this Administrative Arrangement and the terms outlined in the supporting documents will become effective when signed by both parties. This document may be updated at any time to add new areas for which the ENERGY STAR Participant wishes to be recognized as a Participant.

#### ***Termination of Arrangement***

Both parties concur that this Administrative Arrangement is wholly voluntary and may be terminated by *either party* at any time and for any reason, with no penalty.

NRCan reserves the right to terminate the arrangement and deny authorization of the use of the ENERGY STAR registered mark if the Participant fails to comply with the terms of this document, the Full Guidelines and the ENERGY STAR Technical Specifications – Qualified Products. NRCan will actively pursue actions for resolving issues of noncompliance.





The International ENERGY STAR® Symbol in Canada

## General Participant Administrative Arrangement

The undersigned hereby execute this Administrative Arrangement on behalf of their parties. The signatories of this document affirm that they have the authority to execute this understanding on behalf of the ENERGY STAR Participant and Natural Resources Canada.

*On Behalf of Hawkesbury Hydro Inc.*

Name: Michel Poulin

Title: Manager

Signature: [Signature] Date: Oct 23/04

*On Behalf of the Office of Energy Efficiency, Natural Resources Canada*

Name: Anne Wilkins

Title: Senior Program Manager, Equipment Labelling Program

Signature: [Signature] Date: 23/10/04

Please complete and sign both copies of this Administrative Arrangement and return them to

Kathy Deeg  
Account Manager  
Equipment Labelling Program  
Office of Energy Efficiency  
Natural Resources Canada  
1 Observatory Crescent, Bldg # 1, 2nd Floor  
Ottawa ON K1A 0E4

Once the signed Arrangements have been received by our office, the authorized NRCan officer will sign and return a copy to you.