

## We Let You Choose...

The HRSP provides project participants with a choice of preferred vendors that supply a variety of solar technologies.

### Participating Vendors

#### The photovoltaic vendors are:

- ARISE Technologies
- Eco Alternative Energy
- Sun Volts Unlimited

#### The solar domestic hot water vendors are:

- Glenbarra Energy
- Globe Solar Energy
- Goldwater Solar Services
- SolarOntario Ltd.

Participating vendors offer turnkey services for your solar energy system installation, including:

- site assessment;
- installation;
- all permits and inspections;
- homeowner training;
- warranties and maintenance contracts; and
- assistance with government grants and rebates.

## Find Out More!

Visit our booth at the  
**Halton Eco Festival**  
Saturday, April 18  
9 am to 5 pm  
Glen Abbey Community Centre  
1415 Third Line  
Oakville

E-mail:  
[hrsp.admin@gmail.com](mailto:hrsp.admin@gmail.com)

Phone:  
905-901-3501

Halton Residential Solar Project:  
<http://halton.ourpower.ca>

Halton Environmental Network:  
[www.the-hen.net](http://www.the-hen.net)

Talk with other interested homeowners:  
If you are interested in joining the HRSP  
online solar group, send an email to:  
[solarhalton-subscribe@googlegroups.com](mailto:solarhalton-subscribe@googlegroups.com).

This project received funding from  
Environment Canada's EcoAction  
Community Funding Program.



### Could this be your house?



(Above: 2.27 kW Photovoltaic system,  
installed December 2008 in Oakville.)

Introducing the Halton Residential Solar Project (HRSP), a project which helps Halton homeowners to:

- learn about solar energy;
- talk with vendors of solar technologies;
- purchase a solar energy system;
- reduce greenhouse gas emissions and fight climate change; and
- conserve energy.



# Halton Residential Solar Project (HRSP)

A project of the Halton Environmental Network (HEN).

## What is the HRSP?

HRSP strives to:

- educate the public about energy conservation and renewable energy technology;
- connect interested homeowners with preferred vendors of approved solar equipment;
- ensure that long-term maintenance and customer support issues are properly addressed;
- present honest information about the environmental benefits and monetary payback period for the equipment offered through the project;
- assist with identifying financing strategies for homeowners;
- work with our local municipalities and local hydro companies to streamline the approvals process; and
- enable interested homeowners to connect with each other, by internet and giving tours of new installations.

The Ontario government announced its new Green Energy Act on February 23, 2009.

Details pending.

Check our website for updates.

<http://halton.ourpower.ca>

## About Solar Energy Systems

### Solar Photovoltaic (PV) Systems:

Solar panels produce electricity on your home. Connection options include:

*Feed-in Tariff:* You are paid a premium for the electricity that you supply to the grid, while you continue to pay the current rate for the electricity that you use.

*Net Metering:* You only pay the utility for the net amount of energy that you use (i.e. the amount you use minus the amount you produce), at the current rate.

*An off-grid system:* The PV panels are connected to batteries so that you can store some of the energy that you produce. This is a more expensive option.

### Financial Incentives

All solar energy systems qualify for:

- Home Renovation Tax Credit
- Retail Sales Tax Rebate

SDHW Systems qualify\* for:

- ecoENERGY Retrofit for Homes Program rebate
- Ontario Home Energy Savings Program rebate

\*NRCan-certified home energy audit required

## Solar Domestic Hot Water (SDHW) Systems:

SDHW systems use solar thermal technology. Usually, a second water heating tank is placed beside your existing tank.

There are two types of solar collectors:

*Flat-plate Solar Collectors:* A glass cover collects and transfers heat to a series of fluid-filled pipes. The fluid (i.e. distilled water or glycol) is pumped to the new hot water tank where it indirectly heats the water.

*Evacuated Tube Solar Collectors:* Insulated glass vacuum tubes collect and transfer heat to a fluid. The fluid (i.e. distilled water or glycol) is pumped to the new hot water tank where it indirectly heats the water.

There are two main methods to prevent freezing:

*Drainback:* Distilled water in the solar collectors drains into a small storage tank in the house when there is insufficient heat from the sun.

*Glycol:* A food-grade glycol/water solution is circulated through the solar collectors, which prevents freezing.

Solar Thermal Systems can also:

- heat a pool or hot tub; and/or
- provide space heating.