



**Wisconsin ENERGY STAR® Homes  
Renewable Ready Construction**

**Pre-Qualification, Site Verification and Reward Form<sup>1</sup>**

Rating ID # \_\_\_\_\_

This reward form is designed to pre-qualify and site-verify new residential building projects that are built ready for a future renewable energy installation. The form should be completed prior to construction by the builder and verified during construction by a program accredited consultant for each project rendered renewable ready. Only completed and verified forms for eligible homes will qualify for a reward. This form is to be attached to the final testing form submitted by the consultant in order for the builder to claim and receive reward payment.

**Builder name:** \_\_\_\_\_

**Project address:** \_\_\_\_\_

<b>Please complete the following pre-qualification information and provide form to consultant for field verification.</b>	<b>Builder Pre-qualify</b>	<b>Consultant Site-Verified</b>
<b>Orientation of roof slope/proposed future system:</b> (Must be within 30 degrees of due south)	Yes / No	Date
<b>Slope of roof pitch:</b>	Pitch:	Date
<b>Exterior area for proposed future system:</b> (Minimum area of 100 sq. ft. for solar thermal or 200 sq. ft. for solar electric)	Ext. sq. ft:	Date
<b>Mechanical space for proposed future system:</b> (Minimum area of 9 sq. ft. floor area in mechanical room for solar thermal or 4 sq. ft. wall area near electrical panel for solar electric)	Int. sq. ft:	Date
<b>Solar access:</b> (Unobstructed solar access between 10:00 a.m. and 2:00 p.m. at all times of the year. No trees within 30 ft. and/or buildings of greater height within 20 ft. of proposed future site)	Yes / No	Date

<b>Please indicate proposed system type by circling the appropriate reward amount. (circle only one amount)</b>	<b>Reward</b>	<b>Minimum Size</b>	<b>Consultant Site-Verified</b>
<b>Solar thermal system requirements (Solar Domestic Hot Water):</b> 1. Install two ¾ to 1 in. type L copper pipes from an accessible location in the mechanical room through a building cavity and extending into the designated attic to a point above the finished insulation depth. Pipes must be clearly labeled, capped and insulated with ½- in. insulation rated for 250 degrees Fahrenheit. Building cavity must be sealed at top and bottom. 2. Install a four or six-conductor stranded thermostat control wire along with the pipes. Tape the wire to the outside of the pipe insulation and leave a 20 ft. coil of extra wire at each end to complete future connections.	\$100	2 panel	Date
<b>Solar electric system requirements (Photovoltaic):</b> 3. Install ½ to ¾ in. conduit near the utility panel through a building cavity extending into the designated attic space to a point above the finished insulation depth conduit to have three or less 90 degree turns and be clearly labeled for easy identification at a later date. Building cavity must be sealed at top and bottom. 4. Electric-saving technologies installed (see table below)	\$100	1 kW	Date

Installation of **one** of the following electric energy saving technologies is a prerequisite for rendering a home ready for a future **solar electric system** and claiming the reward<sup>2</sup> (check all that apply – minimum of one required).

90% AFUE furnace - with ECM & 2 stages of heating	<b>Brand:</b>	<b>Model #</b>
15+ SEER air conditioner or air source heat pump	<b>Brand:</b>	<b>Model #</b>
15+ SEER mini-split/ductless A/C or heat pump	<b>Brand:</b>	<b>Model #</b>
5 dedicated ENERGY STAR light fixtures	<b>Location:</b>	
10 compact fluorescent light bulbs in high use areas	<b>Location:</b>	

<b>Make check payable to: (print name)</b>	<b>Date:</b>
<b>Signature:</b> Consultant signature	<b>Date:</b>

## **Renewable Ready Construction: Design and Future Installation Considerations**

Rating ID # \_\_\_\_\_

The Wisconsin ENERGY STAR Homes Program encourages the construction of new homes built ready for a future solar renewable energy technology. The following recommendations should be considered in the design and installation of any future system to better ensure system performance, safety and durability.

Homeowners should consult with a qualified individual in the design of any renewable energy system and the roof structure that will support the additional load. For more information on qualified renewable installers and contractors call Focus on Energy at 800.762.7077 or visit our Web site at [focusonenergy.com](http://focusonenergy.com).

Solar hot water system panels can be mounted 30 to 60 degrees from horizontal (45 degrees is optimal for both winter and summer performance). For roof pitches less than 12/12 (45 degrees), panels will protrude from the roof profile and additional blocking and fasteners should be considered to protect panels from wind uplift.

Solar hot water system panels contribute approximately 5 to 10 lbs. per sq. ft. to the roof load. Panels should be mounted parallel to roof truss / slope and reinforcement of trusses should be considered during system design and installation so as not to exceed manufacturer's load bearing design capacity.

Solar hot water system design should include consideration of a "heat sink" to protect system from overheating when demand for hot water is lower than system output.

Solar electric systems can be mounted between 15 to 60 degrees from horizontal (45 degrees is optimal for both winter and summer performance). In addition, solar electric systems require an accessible external disconnect be installed in case of repair work on utility transmission system lines.

### **Renewable Ready Reward Eligibility**

<sup>1</sup> Focus on Energy technology rewards may be used (if available/eligible) to offset the cost of installing equipment and lighting. Please visit our Web site at [focusonenergy.com](http://focusonenergy.com) for more information or call 800.762.7077 for reward information and availability from the Efficient Heating and Cooling Initiative and/or ENERGY STAR Products Program.

<sup>2</sup> This reward is valid for homes started in the Wisconsin Energy Homes Program between July 1, 2007 and December 31, 2008. Rewards are subject to change at any time. For more information, contact a program consultant or call Focus on Energy at 800.762.7077.