



**Wisconsin ENERGY STAR® Homes**  
**BUILDER Cash-Back Reward Eligibility Summary**  
**January 1, 2009 to December 31, 2009 (v1)**

Only Wisconsin residential homes being built in participating Focus on Energy utility service territories are eligible for Cash-Back Rewards. Cash-Back Rewards apply to single family, modular single family, duplex, or townhome (per individual unit) structures. All Cash-Back Rewards are based on receipt of information from a partnering consultant. Call 800.762.7077 for more information on utility participation requirement or to locate a partnering consultant. All Cash-Back Rewards will be paid out up to one year past the current Focus on Energy contract year.

Wisconsin ENERGY STAR Homes Reward	Technical Criteria Refer to page 2 for additional information	Reward Amount (Per Home)	Utility Requirement	Required Forms
New Builder Certification	3 or fewer homes certified	\$200	Gas/Electric	Site Visit 1, 2 & 3
Experienced Builder Certification	4 or more homes certified	\$100	Gas/Electric	Site Visit 2 & 3
Low Solar Heat Gain Windows	Solar Heat Gain Coefficient (SHGC) of .25 or less	\$50	Electric	Site Visit 3
Foundation Wall Insulation	Full height continuous R10 Insulation	\$150	Gas/Electric	Site Visit 3
Bonus Package 1: Forced Air Heating & Cooling	90% + AFUE Furnace with ECM and 2 stages of heating 15+ SEER Air Conditioner	\$50	Electric	Site Visit 3
Bonus Package 2: Modulating Boiler	90% + AFUE Modulating Boiler with outdoor air reset control 15+ SEER Air Conditioner	\$50	Gas / Electric	Site Visit 3
Bonus Package 3: Water Heater	Same as Bonus Package 1 & 2 Power Vented Water Heater with at least .64 EF	\$100	Gas	Site Visit 3
Furnace with ECM motor	90% + AFUE Furnace with ECM and 2 stages of heating	\$250	Electric	Site Visit 3
Drain Water Heat Recovery	GFX, PowerPipe or ReTherm Technology	\$100	Gas/Electric	Site Visit 3
Structured Plumbing	Circulation loop, on-demand recirculation pump and activation switches	\$200	Gas/Electric	Site Visit 3
Structured Plumbing	Circulation loop, on-demand recirculation pump and activation switches	\$200	Electric	Site Visit 3
Solar Hot Water Renewable Ready Construction	Plumbing and electrical components pre-installed and ready to receive future solar hot water system	\$100	Gas/Electric	Renewable Ready Construction Pre Qualification, Site Verification and Reward Form
Solar Electric Renewable Ready Construction	Conduit pre-installed and ready to receive future solar electric system	\$100	Electric	Renewable Ready Construction Pre Qualification, Site Verification and Reward Form
Bonus: Renewable Installation	Solar Hot Water OR Solar Electric system installation	\$175	Gas / Electric	Site Visit 3
Active Sub-Slab Moisture Management and Ventilation System	Continuous exhaust fan connected to the drain tile system	\$250	Electric	Site Visit 3
ENERGY STAR Lighting Fixture Package	Package of 5 ENERGY STAR qualified fixtures	\$75	Electric	Through EFI
ENERGY STAR CFL Light Bulb Package	Up to 40 CFL light bulbs	\$2 (per bulb)	Electric	Through EFI



## Wisconsin ENERGY STAR Homes BUILDER Cash-Back Rewards Descriptions

### **Definitions:**

GSHP: Ground Source Heat Pump

SHGC: Solar Heat Gain Coefficient

ECM: Electronically Commutated Motor

SEER: Seasonal Energy Efficiency Rating

EFI: Energy Federation Incorporated

CFL: Compact Fluorescent Light

PV: Photovoltaic

AHRI: Air Conditioning Heating and

Refrigeration Institute

### **New Builder Certification:**

A "new builder" is defined as a builder having certified 3 or fewer homes through the Wisconsin ENERGY STAR Homes program. The designation will apply up to and including the third certified Wisconsin ENERGY STAR Home. Builder must work with a partnering consultant. All three site visits are required: #1 - Framing Pre-Drywall; #2 - Insulation Pre-Drywall; and #3 - Performance Testing.

### **Experienced Builder Certification:**

An "experienced builder" is defined as any builder having certified 4 or more homes through the Wisconsin ENERGY STAR Homes program. Builder must work with a partnering consultant. Two site visits are required: #2 - Insulation Pre-Drywall; and #3 - Performance Testing.

### **Low Solar Heat Gain Windows:**

Requires verification by the consultant that a minimum of 75 square feet of east/west windows have a SHGC of .25 or less. Window orientation may be within 45° of east/west.

### **R10 Foundation Insulation:**

Foundation insulation must be full height and continuous around the entire perimeter of the foundation – including buffered areas such as garages. The exception is for homes heated with a GSHP. In these cases, the home must be in a participating electric utility.

### **Bonus Package 1. Forced Air Heating and Cooling:**

90% or greater AFUE forced air furnace with an ECM and two stages of heating. Two stage or multi stage furnace motors that adjust the speed of AC motors are not eligible. 15 SEER or greater central air conditioner meeting nominal SEER ratings based on the evaporator coil, condenser coil and motor. The evaporator and condenser coil model number, serial number, and AHRI reference numbers are required for reward processing. Correct airflow and refrigerant charges are also required. All efficiency ratings will be verified using the AHRI database ([www.ahridirectory.org](http://www.ahridirectory.org)). See [www.focusonenergy.com/hvac](http://www.focusonenergy.com/hvac) for additional information.

### **Bonus Package 2. Modulating Boiler:**

90% or greater AFUE natural gas-fired 300 MBtu/hr or greater modulating boiler with an outdoor air reset control. To qualify, the boiler must be used for space heating and domestic water heating. 15 SEER or greater central air conditioner meeting nominal SEER ratings based on the evaporator coil, condenser coil, and motor. The evaporator and condenser coil model number, serial number, and AHRI reference numbers are required for reward processing. Correct airflow and refrigerant charges are also required. All efficiency ratings will be verified using the AHRI database ([www.ahridirectory.org](http://www.ahridirectory.org)). See [www.focusonenergy.com/hvac](http://www.focusonenergy.com/hvac) for additional information.

### **Bonus Package 3. Water Heater:**

.64 to .79 Energy Factor or 90% or greater Thermal Efficiency. Water Heater must be a natural gas, sealed combustion, power vented, condensing unit. Qualifying model numbers based on GAMA database. Performance requirements for heating and cooling are the same as Package 1 and Package 2 above. See [www.focusonenergy.com/Incentives/Residential/Cash-Back\\_Rewards/waterheater.aspx](http://www.focusonenergy.com/Incentives/Residential/Cash-Back_Rewards/waterheater.aspx) for additional information.

### **Forced Air Furnace With an Electronically Commutated Motor (ECM) Equipped Blower:**

90% AFUE furnace with at least two stages of heating. Qualifying model numbers based on AHRI database ([www.ahridirectory.org](http://www.ahridirectory.org)).

### **Drain Water Heat Recovery:**

Limit 2 per building. Consultant must verify the installation of either the GFX, Power Pipe or ReTherm systems placed on a shower or bathtub drain line.



## Wisconsin ENERGY STAR Homes BUILDER Cash-Back Rewards Descriptions

### Definitions

GSHP: Ground Source Heat Pump	SEER: Seasonal Energy Efficiency Rating	PV: Photovoltaic
SHGC: Solar Heat Gain Coefficient	EFI: Energy Federation Incorporated	AHRI: Air Conditioning Heating and Refrigeration Institute
ECM: Electronically Commutated Motor	CFL: Compact Fluorescent Light	

### Structured Plumbing:

Components: Hot water piping design should consider the best practice design guidelines available at:

[http://www.focusonenergy.com/files/Document\\_Management\\_System/Residential\\_Programs/plumbingsystems\\_guidelines.pdf](http://www.focusonenergy.com/files/Document_Management_System/Residential_Programs/plumbingsystems_guidelines.pdf)

Components: 3/4-inch min recirculation loop returning to the water heater from the hot water trunk. A "momentary" hardwired or wireless switch, located in all bathrooms and the kitchen. System must have circulation pump tied in with a "thermal sensor" to shut off pump after the water has been circulated. Electrical circuit must also have safeguards to prevent excessive run times. System design specs available at:

<http://www.gothotwater.com>. System must comply with all applicable building codes.

### Solar Hot Water Renewable Ready Construction:

Refer to the Renewable Ready Construction Pre-Qualification/Site Verification and Reward Form for specific information.

All penetrations through the pressure boundary must be air sealed.

### Solar Electric Renewable Ready Construction:

Refer to the Renewable Ready Construction Pre-Qualification/Site Verification and Reward Form for specific information.

All penetrations through the pressure boundary must be air sealed.

### Bonus Renewable Installation:

Bonus reward for the installation of solar water heat and/or solar PV electrical system(s).

### Active Sub-Slab Moisture Management and Ventilation System:

Components: Minimum of 3 to 4 inches of 3/4-inch gravel base under the slab. Must have minimum of 3 inch diameter, interior drain tile around entire perimeter, located as close to the footing as possible. Drain tile system must be fully enclosed with no direct connection to outside air. Drain tile connected above the slab with a minimum 3 inch diameter Schedule 40 piping running vertically. This vertical pipe must include a water manometer visible for verification of sub-slab depressurization. Rigid piping to exit conditioned space and terminate through the highest section of the roof system. This section of piping to include a continuous running fan having a minimum capacity of 100 CFM @0.20 in/wc. System must comply with all applicable building codes.

### ENERGY STAR Lighting Fixture Package:

Cash-Back Reward is available through a non-exclusive partnership between Focus on Energy's ENERGY STAR Lighting Program and EFI. Lighting fixtures must be ENERGY STAR qualified as listed on the EPA's list of qualified ENERGY STAR products. Builder can purchase qualified ENERGY STAR light fixtures at a \$15 discount per fixture; \$75 maximum. EFI processes all paperwork directly with Focus on Energy's ENERGY STAR Lighting Program. Contact EFI at 800.962.7015 or [efi.org/wholesale](http://efi.org/wholesale).

Username: Wisconsin, Password: savings.

### ENERGY STAR CFL Light Bulb Package:

Cash-Back Reward is available through a non-exclusive partnership between Focus on Energy's ENERGY STAR Lighting Program and EFI. Builder can purchase up to 40 ENERGY STAR qualified CFL bulbs from EFI at a \$2 per bulb discount. EFI processes all paperwork directly with Focus on Energy's ENERGY STAR Lighting Program. Contact EFI at 800.962.7015 or [efi.org/wholesale](http://efi.org/wholesale).

Username: Wisconsin, Password: savings.