



# Duke Energy Progress

## Residential New Construction Incentive Program



# Program Requirements

- \* Project must be served by Duke Energy Progress (Progress Energy Carolinas legacy service territory)
- \* Project may qualify for either Option 1 or Option 2, but NOT both
- \* Building permits must be issued after March 31, 2012
- \* Each Home or Project must be enrolled in Project Manager and must include the Premise number assigned by Duke Energy Progress\*

\*The premise number is assigned when the Builder requests temporary service for the project. Builders may contact Builder Express at 800-636-0581 to verify the premise number for a project and verify that a site is served by Duke Energy Progress.

# Equipment Incentives (Option 1)

Equipment Incentives	
Heat Pump Water Heater EF > 2.0	\$350 / unit
High Efficiency HVAC $\geq$ 15 SEER	
Air-to-Air Heat Pump	\$300 / unit
Central Air Conditioning	\$300 / unit
Geothermal Heat Pumps <b><u>do not qualify</u></b>	\$0.00/unit

- \* Equipment must be installed after October 1, 2012
- \* Project may qualify for multiple equipment incentives

# Equipment Incentives Requirements

- \* Includes new construction single-family homes and multi-family developments that are metered Residential
- \* Requires information manufacturer, model number, unit size and efficiency for equipment installed when the home is enrolled in Project Manager
- \* Requires a copy of the contractor installation invoice showing an install date after October 1, 2012
- \* Requires a copy of the AHRI label
- \* No testing is required
- \* Incentives will be available as long as the RNC Program is in effect (currently 3-year program)

# Whole House Incentives (Option 2)

- \* Home meets or exceeds the High Efficiency Residential Option (HERO) of the 2012 NC Energy Conservation Code (Chapter 4 and Appendix 4)

Whole House Approach	
HERO PRESCRIPTIVE (High Efficiency Res Option)	\$1,000 per home
HERO Plus HERS 71 or Above	\$1,000/home + Limited Guarantee*
HERO Plus HERS 66 to 70	\$1,750/home + Limited Guarantee*
HERO Plus HERS 56 to 65	\$2,500/home + Limited Guarantee*
HERO Plus HERS 55 or Below	\$4,000/home + Limited Guarantee*

\*Available to Homeowners at Builder's option



# Whole House Requirements

- \* Available for new construction single-family homes and multi-family developments (three stories or less and permitted Residential or R2 Residential\*)
- \* Either Builder/Rater can enroll homes
- \* Rater is required to test/inspect and submit required data

\*Units must be individually metered and have separate HVAC and water heating systems.

# Program Overview

Provides an overview of the benefits of participation, incentive information and eligibility requirements.

## Cash in with energy-efficient new construction.

With rebates up to \$4,000, we make it easier than ever for you to build energy-efficient homes. Our Residential New Construction Program provides generous cash incentives to builders and developers who build new energy-efficient homes and multi-family residences in our service territory.

You may choose to participate in one of two types of incentives:

### Whole-House Incentives

- Up to \$4,000 for builders in North and South Carolina who build to or above the 2012 NC Energy Conservation Code's High Efficiency Residential Option (HERO) or the equivalent in South Carolina
- An optional three-year Heating and Cooling Energy Usage Limited Guarantee you can offer your homebuyers
- Marketing support including signage and collateral

### Equipment Incentives

- Up to \$350 for specific high-efficiency equipment such as water heaters and heating and cooling systems

Find out how energy efficiency can pay off for your business. See reverse for more details about the program specifics and builder qualifications.

**Get started today.**  
 Call 1.855.679.4906 or email [newhomesupport@mascohs.com](mailto:newhomesupport@mascohs.com).  
 Learn more at [progress-energy.com/newhomes](http://progress-energy.com/newhomes).

Available incentives	
<b>Whole-House Incentives:</b>	
HERO prescriptive	\$1,000 per home
HERO HERS 71 or above	\$1,000 per home + Guarantee
HERO HERS 70 to 66	\$1,750 per home + Guarantee
HERO HERS 65 to 56	\$2,500 per home + Guarantee
HERO HERS 55 or below	\$4,000 per home + Guarantee
<b>Equipment Incentives:</b>	
Heat pump water heater: energy factor > 2.0	\$350
High-efficiency HVAC: air to air heat pumps, min. SEER 15	\$300
High-efficiency HVAC: central air conditioning, min. SEER 15	\$300

## Build better homes. Get better incentives.

### Who can participate?

- Projects must be new construction served by Progress Energy.
- All building permits must be issued after March 31, 2012.
- Single-family home and multi-family development, three or less stories, qualify for either the Equipment Incentives or the Whole-House Incentives, but not both.
- Multi-family developments over three stories and manufactured homes qualify only for the Equipment Incentives.
- Whole-House Incentive homes (except for Prescriptive Path) must receive a HERS Index Score verified by a HERS Rater certified by and in good standing with RESNET.
- To qualify for the Equipment Incentive, builders must provide an equipment installation invoice dated after Oct. 1, 2012. Builders enrolling in the Whole-House Incentive must meet all program requirements and provide a HERS certificate dated after Oct. 1, 2012.

### What is the HERO code?

In January 2012, the NC Building Code Council launched the High Efficiency Residential Option (HERO), which is detailed in Appendix 4 of the 2012 NC Energy Conservation Code. The increased energy-efficiency measures of HERO are optional and have been evaluated as the most cost-effective measures for achieving an additional 15 – 20% in energy efficiency beyond the code minimums. This voluntary "stretch" code is met by following either a specific Prescriptive Path or a more flexible Performance Path. The Performance Path requires an energy cost analysis provided by a HERS Rater showing that the proposed home design has an annual energy cost less than or equal to the annual energy cost of the standard reference design.

### What is the HERS Index?


The Home Energy Rating System (HERS) Index is incorporated into the Whole-House Incentive of our new program. The HERS Index is a scale for which expected home energy usage is measured and communicated. The lower the HERS Score, the lower the expected energy usage. By working with a certified RESNET Home Energy Rater, the home is given a score based on energy performance that determines the builder's incentive level. A HERS Index is also an effective tool for demonstrating the efficiency of the home to buyers and can be leveraged in communicating the true cost of ownership. For more information about the HERS Index, visit [resnet.us/hers-index](http://resnet.us/hers-index) or contact a local HERS Rater.

### How does the Heating and Cooling Energy Usage Limited Guarantee work?

Builders who meet or exceed 2012 HERO requirements can participate in a Limited Guarantee. (Homes in South Carolina must be built to HERO equivalent standards.) Each home in the program must receive a HERS Index Score verified by a certified HERS Rater and be modeled using REM/Rate™ software to calculate the heating and cooling energy usage that the home should use during an average weather year. The home will then be assigned a maximum annual heating and cooling energy usage amount and an estimated annual heating and cooling cost. The Limited Guarantee provides builders with an effective means of marketing their homes' energy efficiency to prospective buyers.

The Limited Guarantee is only applicable to the initial homeowner and will apply for three years from registration. Should a customer's heating and cooling energy usage exceed the stated Limited Guarantee after 12 months following the completion of the first billing cycle, and if all conditions have been met, the customer will be eligible to receive a payment for the amount that exceeds the Limited Guarantee. Progress Energy is utilizing a third-party administrator to manage and financially back the Limited Guarantee.

Get detailed steps of how to receive these valuable incentives at [progress-energy.com/newhomes](http://progress-energy.com/newhomes).



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# Contact Information

- \* For more information or if you have questions:

[www.Duke-Energy.com/newhomes](http://www.Duke-Energy.com/newhomes)

[NewHomeSupport@MascoHS.com](mailto:NewHomeSupport@MascoHS.com)

**Call toll free 855-679-4906 (Liz Anthony)**

- \* Mark Tabert, Duke Energy Progress
  - \* (919) 546-2658
  - \* Mark.tabert@duke-energy.com
- \* Dan Stancil, Masco Home Services, Inc.
  - \* (919) 201-0528
  - \* Dan.stancil@mascohs.com



# SunSense PV Program

## SunSense Solar PV Program

Font Print Rate Share

### SunSense<sup>®</sup> Solar PV

Residential New Construction Program



With solar photovoltaic (PV) panels on your rooftop, you could be generating clean, renewable electricity – and incentives from Duke Energy Progress.

The program will effectively close upon reaching full program subscription (1 MW-AC).

Accepted	Remaining Capacity
0	1 MW-AC

Effective March 30, 2013 the rebate for the Residential SunSense PV program is \$500 per kW AC.

Effective October 31, 2013 SunSense PV installers must have NABCEP Solar PV Installation Professional Certification.

How to Qualify

[Get Started](#)

[Resources](#)

[Understanding Your Bill](#)

[FAQs](#)

To qualify for this residential PV program, you must be a Duke Energy Progress customer located in North Carolina and a homeowner. You must be the account holder, use the home as your primary residence and own the solar PV system installed on the home. Renters may not participate.

If accepted into the program, you will receive an upfront rebate payment plus an ongoing monthly bill credit. To qualify, the proposed PV system must be rooftop-mounted and range in size from 2 kW AC to 10 kW AC. Systems must be installed by a licensed contractor, meet electric and safety standards and be capable of producing a minimum of 1,200 kWh/per kW AC annually.

Participating customers must participate on Duke Energy Progress TOU-D rate, Net-Meter Rider and Solar Rider for a minimum five-year period with an option to extend each year thereafter. Participants will receive a one-time upfront rebate of \$500 per kW AC and a monthly bill credit based on the same system AC rating at \$4.50 per kW.

The program limit is 1 MW AC each year. **Duke Energy Progress must receive and approve program applications prior to PV system installation or else the incentives cannot be provided.** The program is fully subscribed for 2013. We will begin accepting applications Jan. 1, 2014.

For additional program details, view the FAQs page. To contact Duke Energy Progress about this program, send an e-mail to [DEPHomeSolar@duke-energy.com](mailto:DEPHomeSolar@duke-energy.com).

This program is part of Duke Energy's ongoing commitment to making renewable energy more accessible and affordable for our customers and communities.

### Save Energy & Money

#### Energy Efficiency Improvements

- > Customized Home Energy Report
- > EnergyWise Home
- > Home Energy Improvement Program
- > Residential New Construction Program
- > Energy Conservation Discount
- > SunSense
  - > **SunSense Solar PV**
- > Lower My Bill Toolkit
- > Rebates & Incentives
- > Energy Saving Tips & Calculators
- > Plugged In Program

# SunSense PV Program

**Eligibility:** Only residential homeowners served by Duke Energy Progress (“DEP”) are eligible to apply. The Applicant must : (1) own the solar PV system (“System”), (2) own and occupy the residence upon which the System is installed, and (3) own all non-energy attributes of the System, including environmental attributes and/or the renewable energy certificates (“RECs”) attributable to the amount of energy generated by the System.

**System Requirements:** The System must be: (1) installed on real property owned by a residential customer of DEP, located in North Carolina with electric service to the site being supplied by DEP, (2) installed and operated in accordance with governmental and industry standards and comply with the National Electric Code requirements, and (3) between 2 kilowatt (kW) AC and 10 kW AC capacity rating (on an aggregate basis).

**Interconnection:** DEP’s acceptance of this Application and Applicant’s submittal of the Certificate of Completion shall satisfy all requirements for Applicant to submit an Interconnection Request for solar PV systems served under the Residential Service SunSense Solar Rebate Rider SSR.

**Renewable Energy Certificates (RECs)** All RECs produced by the solar PV system will be provided to DEP. While service is received under Rider SSR, DEP assumes all responsibility regarding registration and reporting of Applicant’s RECs to the regulatory body having jurisdiction.

**Approval and Installation Requirement:** DEP, in its sole and absolute discretion, may accept or reject any Application for any reason. Upon DEP’s acceptance of an Application, DEP will notify the Applicant. System installation, including Applicant’s submittal of the Certificate of Completion, must occur within ninety (90) days of Company’s Application acceptance. **If System construction or installation occurs before Application acceptance, then DEP may, in its sole and absolute discretion, determine that the Applicant’s System is ineligible. In such event, DEP shall have no obligation to make any payment to Applicant.**

**Payment Terms:** Upon installation of the System and submittal to DEP of a Certificate of Completion, Applicant will receive a one-time payment as stated in Rider SSR of \$500 per kW AC for the System RECs, subject to acceptance and Applicant’s compliance with all terms, conditions, and obligations of DEP’s Residential Service Time-of-Use Schedule R-TOUD, Net Metering for Renewable Energy Facilities Rider NM, and Rider SSR.

# SunSense PV Program

Please click each box to complete the form below; then print, sign and return to the address given.

SECTION 1: APPLICANT INFORMATION (if residence is jointly owned, include both owners' names and signatures)						
NAME			DUKE ENERGY PROGRESS ACCOUNT NO.			
HOME ADDRESS (physical address of proposed PV system)			CITY	STATE	ZIP	
PRIMARY PHONE			SECONDARY PHONE			
MAILING ADDRESS (if different from home address)			EMAIL			
SECTION 2: INSTALLER INFORMATION						
COMPANY NAME			CONTACT NAME			
MAILING ADDRESS			CITY	STATE	ZIP	
BUSINESS PHONE			MOBILE PHONE			
EMAIL			ELECTRICAL CONTRACTOR LICENSE NO. (REQUIRED)		NABCEP PV INSTALLATION PROF. CERT. NO (REQUIRED)	
SECTION 3: SYSTEM INFORMATION						
MODULE MFG	MODULE MODEL #	# OF MODULES	DC RATED CAPACITY kW	DERATE FACTOR* x	AC RATED CAPACITY =kW	TOTAL SYSTEM COST \$
TECHNOLOGY (CHOOSE ONE): THIN FILM <input type="checkbox"/> CRYSTALLINE <input type="checkbox"/>				INVERTER UL 1741 LISTED? IF YES, MFG/MODEL:		
<b>***REQUIRED – Attach Installer's quote AND PV Watts Documentation***</b>						

\* See Section 4. Derate factor obtained using PV Watts v2. Consult your Installer with any questions.

# SunSense PV Program

Questions regarding this application should be directed to [DEPhomesolar@duke-energy.com](mailto:DEPhomesolar@duke-energy.com). Send completed Application with installer's quote to one of the following:

1) EMAIL (scanned with signature):  
[DEPhomesolar@duke-energy.com](mailto:DEPhomesolar@duke-energy.com)

2) MAIL – Duke Energy Progress  
Residential Solar PV Program  
PO Box 1551, NC14  
Raleigh, NC 27602

SECTION 4: SYSTEM INTALLATION INFORMATION	
Productivity of PV systems is sensitive to the specifics of the installation method and location. System output is impacted by shading and PV orientation, referred to as panel tilt angle and azimuth. Any System that annually produces less than 1,200 kWh per each kW-AC installed (as estimated using PV Watts v2 NREL FlexViewer)** will <u>not</u> be eligible for an incentive. The azimuth is the compass direction the System faces. Tilt angle is the tilt of the solar panel in relation to horizontal. The System should be free of any obstructions, including current and future tree shading.	
Proposed Array Azimuth Angle (degrees)	Proposed Tilt Angle Above Horizontal (degrees)
kWh Annual Production (as calculated by PV Watts v2 NREL FlexViewer)	

\*\*Available at: <http://pvwattsbeta.nrel.gov/>

(“AC Energy & Cost Savings” and “Calculator for Overall DC to AC Derate Factor” required, with a Solmetric SunEye or Pathfinder software-generated shade analysis report.)

# SunSense PV Program

Questions ??