

**2014 Housing Innovation Awards**

**DOE Challenge Home Application**

The U.S. Department of Energy’s [Housing Innovation Awards](http://energy.gov/eere/buildings/housing-innovation-awards) recognize the very best in innovation on the path to zero energy ready homes. Approximately 3 to 5 ***DOE Challenge Home National Award Winners*** will be selected for each of three categories: custom builder, production builder, and affordable home builder. A single ***DOE Challenge Home National Grand Award Winner*** will be announced for each of these categories at the Housing Innovation Awards ceremony.

To enter the DOE Challenge Home Housing Innovation Awards:

1. Complete this application and save it as a Word document or PDF.
2. [Log-in](https://www4.eere.energy.gov/buildings/residential/my_account) to your DOE Challenge Home account (partner locator), click on Housing Innovation Awards and upload the following:

This application (WORD or PDF)

DOE Challenge Home [verification form](http://energy.gov/sites/prod/files/2013/11/f5/ch_verification_summary.pdf) (PDF)

DOE Challenge Home [certificate](http://energy.gov/sites/prod/files/2013/11/f5/certificate_examples.pdf) (PDF)

A minimum of 10 photographs (JPG 0.5 to 2MB file size) covering, at a minimum, the items below.

Home under construction showing significant energy-efficiency details

Finished elevations

Finished interiors

Floor plan (JPG or PDF)

Videos – if you have videos, please copy the YouTube or Vimeo link here:

1. Please complete and submit your application by **June 30, 2014**. Winners will be notified by August 15, 2014. Winners will be presented and the grand winner will be announced at the ceremony on **September 23rd** at EEBA’s Excellence in Building Conference in St. Louis, MO.

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| Builder Company:  City/State:  Company Phone:  Company Website: | | | |
| Builder Contact Name:  Email:  Direct Phone: | | | |
| Homeowner/Project Name:  Project Address: | | | |
| Category (check one): □ Custom □ Production □ Affordable | | | |
|  | | | |
| Climate Zone (1 thru 8):  IECC Year: | **Construction Completion Date:** | | |
| Home Size (Conditioned sq. ft.): | **Number of Bedrooms:**  **Number of Baths:**  **Number of Floors:** | | |
| Verifier Company:  Contact Name:  Email:  Direct Phone: | | | |
| Prepared by:  Date:  Email:  Direct Phone: | |  | |
| Modeled Cost Data:   * Estimated added first cost over standard to-code construction: $ * What is local code equivalent to: \_\_ 2006 IECC, \_\_\_ 2009 IECC, or \_\_\_ 2012 IECC? * Projected annual utility costs (without PV):   $   * Projected annual utility costs (with PV): * Projected annual energy cost savings (with PV) compared to similar home built to state code:   $   * Projected annual energy cost savings (without PV) compared to a similar home built to code: $ | | * Annual PV production revenue: $ * Annual energy savings (MBTus, therms, kWs):   - Without solar:  Electric (kWh)  Natural gas (therms)  - With solar: | |
| HERS Index w/Photovoltaics: | | **HERS Index w/o Photovoltaics:** | |
| Optional Programs:  This home meets all of the requirements of the DOE Challenge Home including ENERGY STAR Version 3 plus the following as evidenced in the submitted material (check all that apply):  EPA’s Indoor airPlus  EPA’s WaterSense  Institute for Business and Home Safety (IBHS) Fortified Home  DOE Challenge Home Quality Management Guidelines  PHIUS+  LEED for Homes Level:  NAHB National Green Building Standards (NGBS) Level:  Other: | | | |
| Challenge Home Path: Performance Prescriptive | | | |
|  | | | |
| *Please write narrative about this house that addresses the six criteria below. Be sure to indicate what attachments support the narrative. Remember, the judges have a lot to read, so clear, concise narrative’s are always preferred.* | | | |
| Criteria | | | **Tell the story about what makes this home interesting:** |
| 1. Land Development. How were site issues addressed for locating a zero net-energy ready home on this property?   Was there any landscaping considerations related to energy efficiency and/or water conservation?  *Example: vistas, topography, orientation, indigenous materials, water resource constraints, etc.* | | |  |
| 1. Design. How would you describe the style of the house (e.g., traditional colonial, modern)?   How were architecture and layout integrated with the energy efficiency and performance of the home?  *Example: Style, regional design factors; natural comfort factors; disaster resistance; sustainable materials; etc.* | | |  |
| 1. Performance. *Please describe the key features driving the performance of the DOE Challenge Home and how they were integrated into a house-as-a-system package.*  * Walls (construction type; advanced framing details; insulation type, amount and R-value; house wrap; drainage plane; siding): * Roof (material; cool roof, extra air or water sealing measures): * Attic (construction type; insulation type, amount, R-value and location): * Foundation (type; insulation type, amount, R-value and location): * Windows (# of panes, gas filled, frame type, low-e, U-value, SHGC): * Air sealing (air changes per hour at 50 Pa): * Ventilation (type; filter; timers): * HVAC (type; AFUE, SEER; duct type, location and insulation): * Hot water (type and efficiency): * Lighting (% LED, % CFL; motion sensors; ENERGY STAR ceiling fans): * ENERGY STAR appliances included: * Renewables (kW of PV, solar water heating): * Water conservation features: * Energy management system: * Other measures (e.g., electric car charging station, low VOCs) * Strategies for addressing performance including disaster resistance and solar readiness: | | | |
| 1. Quality Construction. What quality practices and measures did you undertake to ensure minimum defects and waste while employing proven advanced technologies?   *Examples: Pre-construction team meetings; comprehensive construction documents; quality management plan; etc.* | | |  |
| 1. Sales, Marketing and Consumer Education. What marketing and sales solutions addressed the energy efficiency and performance of this home? How do you communicate this level of performance to buyers?   *Examples: Sales training; displays; warranties; sales data comparisons to standards construction; tours; articles; homeowner’s manual, marketing techniques.* | | |  |
| 1. Business Metrics. How did you measure the business results of your investment in zero net-energy ready homes?   *Examples: Incremental cost of construction above code; time-to-sale; number of homebuyer visitors; media coverage; customer satisfaction; actual energy billing data.* | | |  |
| BONUS: Homeowner Testimony.  Has the house been occupied?  If so, please ask the homeowner to provide testimony answering the following questions:    What benefits do you see in owning a DOE Challenge Home in terms of energy bills, comfort, health, durability or ease of maintenance?  What do you like about your DOE Challenge Home?  Would you recommend a DOE Challenge Home to other homeowners?    Do you have billing data that you can share with us? | | |  |