

**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 airPlusEPA’s WaterSenseInstitute for Business and Home Safety (IBHS) Fortified HomeDOE Challenge Home Quality Management GuidelinesPHIUS+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? |  |