



# Zero Energy Ready Home Tier 3 and Zero Energy Tier 3 Plus Minimum Technical Specifications

July 1<sup>st</sup> 2015

To earn the New Jersey Zero Energy Ready Home<sup>1</sup> (NJZERH) label, a project must meet or exceed the technical specifications below as well as meet or exceed all requirements for DOE Zero Energy Ready Homes (Specification Rev. 04); be verified and field-tested in accordance with NJZERH and Residential Energy Services Network (RESNET) standards (including all applicable checklists), and meet all applicable codes. In the event of conflicting standards, the standard with the highest efficiency or performance requirement will prevail.

The ZERH minimum technical specification is summarized in the table below<sup>2</sup>.

<b>HERS Index</b>	<b>Maximum 50 points – DOE ZERH specifications alone do not ensure maximum HERS Index of 50 points.</b> Rating providers should model Tier 3 NJ ZERH homes to achieve a target HERS score of 50 points or less
<b>Technical Standard</b>	<b>DOE Zero Energy Ready Home specification<sup>3</sup> - All DOE Zero Energy Ready Home specifications (DOE ZERH) need to be met minus the Renewable Energy Ready Home (RERH) Checklist<sup>4</sup></b>
<b>ENERGY STAR® for Homes Baseline</b>	<b>Certified under ENERGY STAR Qualified Homes Version 3</b>
<b>Envelope</b>	<b>Fenestration shall meet or exceed ENERGY STAR requirements Ceiling, wall, floor, and slab insulation shall meet or exceed 2012 IECC</b>
<b>Duct System</b>	<b>Duct distribution systems located within the home’s thermal and air barrier boundary or optimized to achieve comparable performance<sup>1</sup></b>
<b>Water Efficiency</b>	<b>Hot water delivery systems shall meet efficient design requirements</b>
<b>Lighting &amp; Appliances</b>	<b>All installed refrigerators, dishwashers, and clothes washers are ENERGY STAR qualified 80% of lighting fixtures are ENERGY STAR qualified or ENERGY STAR lamps (bulbs) in minimum 80% of sockets All installed bathroom ventilation and ceiling fans are ENERGY STAR qualified</b>
<b>Indoor Air Quality</b>	<b>Certified under EPA Indoor airPLUS</b>

<sup>1</sup> The NJ Zero Energy Ready Home (ZERH) is modeled on the DOE Zero Energy Home, with NJ specific amendments.

<sup>2</sup> As referenced standards are revised, the program ZERH automatically adopts changes.

<sup>3</sup> [http://energy.gov/sites/prod/files/2014/04/f15/doe\\_zero\\_energy\\_ready\\_home\\_requirements\\_rev04.pdf](http://energy.gov/sites/prod/files/2014/04/f15/doe_zero_energy_ready_home_requirements_rev04.pdf)

<sup>4</sup> If a solar photovoltaic or solar hot water system is already included with the home, then compliance with the solar photovoltaic or solar hot water RERH checklist, respectively, is not required.



## Tier 3 Plus

Meet all the requirements of Tier 3 plus the addition on renewable energy

<b>Renewable Energy</b>	<b>Solar Electric</b> must provide 100% of modeled electricity consumption. <b>Small wind or hydro</b> may be used with engineering estimate of available resource.	<b>Solar Thermal</b> or <b>Solar Electric</b> must provide 100% of modeled hot water energy requirement. <sup>5</sup>
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