
NH Energy Efficiency Resource Standard

Three-Year Program Plan





Review of

Residential New Construction – ENERGY STAR Homes

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Desired Outcomes (Overall, Not Program Specific)

- Increase program yields
 - Serve more customers
 - Increase customer savings
 - Further develop and expand NH's product and service provider infrastructure
 - Result in sustained, orderly market development
 - Stimulate private investment and the use of new financing approaches
 - Increase awareness of the job creation and economic development impacts of EE
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Characteristics of Successful RNC Program

- Supports deep savings across all fuels (electric, natural gas, and unregulated fuels) and end-uses (HVAC, appliances, lighting).
 - Includes water saving design strategies and targets.
 - Incentive structure rewards energy savings and renewable energy.
 - Includes requirements to document best practices in design, such as properly sized HVAC equipment, building envelop, water management, and indoor air quality ventilation systems.
 - Utilizes contractors and verifiers certified to industry recognized standards.
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Best Practices for Achieving Success, and Why

- Leverage national standards such as ENERGY STAR Homes and Zero Energy Ready Homes.
 - Incentives are structured in tiers or use HERS index to reward savings over code.
 - Include prescriptive requirements and incentives for HVAC, lighting, and appliances.
 - Energy savings are estimated using REMRate modeling software.
 - Ensure quality construction by requiring RESNET certified raters .
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Suggestions for NH

- Program plans to capture about 15% of new construction¹. Achieving higher market penetration important for program moving forward.

- Potential ways to increase program participation include:
 - Nominate and promote RNC partners for awards through national and local programs

 - Offer subsidized training for appraisers to gain certification in green appraising which is a standardized way to value efficiency and renewable features

 - Develop relationships and train relators on NHSAVES RNC program

 - Promote non-energy benefits of ENERGY STAR to builders and potential homebuyers

Footnotes

1 – Percent calculated with number of units in 2017 goals compared to US Census estimated residential 2016 permits

Suggestions for NH

- Code is currently IECC 2009 with no planned cycle to adopt IECC 2015².
 - Consider incorporating a tier based on IECC 2015 with generous incentives and training to encourage early adoption and smooth transition to new code.

- For Net Zero Challenge, consider post occupancy monitoring to compare modeled to actual energy.
 - Will build knowledge base on how buildings are actually performing and provide feedback to energy modelers on assumptions.

- Multifamily is a growing housing type.
 - High-rise multifamily (>4 stories) meets commercial code and is often served by commercial new construction programs unfamiliar with in-unit residential efficiency measures
 - Consider adopting ENERGY STAR multifamily high rise program