Rhode Island Residential Stretch Code

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Today's Agenda

- Residential & Commercial Stretch Code Development
- 2. Brief overview of Residential Stretch Code
- 3. Q&A
- 4. Public comment period





Purpose

- OER has undertaken the development of residential and commercial stretch codes as directed by Executive Order 15-17
- In August of 2016 the EERMC approved the work plan for ERS to work with the OER and an advisory committee to develop draft stretch codes
- Today we will be presenting the proposed Residential Stretch
 Code and seeking input from members of the public



Stretch Code Development Process

- Executive Order 15-17
- Stakeholder committees formed
- Reviewed model stretch codes and high performance building programs
- Proposed code models with input from stakeholder group
- Established methodology for working with National Grid efficiency and renewable energy programs
- Produced draft documents



Stakeholder Committee Organizations

- Dryvit
- Energy & Resource Solutions (ERS) (Consultant)
- Green Building Advisory Committee
- National Grid
- Northeast Energy Efficiency Partnerships
- Rhode Island Builders Association (RIBA)
- Rhode Island Building Code Commission
- Rhode Island Division of Capital Asset Management & Maintenance (DCAMM)
- Rhode Island Energy Efficiency and Resource Management Council (EERMC)
- Rhode Island Office of Energy Resources (OER)



Residential Stretch Code Summary

Goals

- Promote energy efficient homes
 - Reduce negative environmental impacts
 - Lower operating (heating and cooling) costs
- Assist with construction of zero net energy homes and zero energy ready homes
- Expand the installation of renewable energy systems
- Promote the efficient use of water resources
- Encourage the use of electric vehicles
- Construct healthy homes indoor environmental quality
- Work with National Grid to provide financial incentives for stretch code qualifying homes



Residential Stretch Code Content Summary

Energy Efficiency Compliance Paths

- Main compliance path: U.S. Department of Energy Zero Energy Ready Homes (ZERH) Program Certification
 - Homes designed & constructed to be zero net energy upon installation of solar photovoltatic system



- LEED for homes with selected optional credits
- Passive House which is an official alternative path for ZERH
- Living Building Challenge
- All paths offer prescriptive (menu driven) or performance compliance





Residential Stretch Code Content Summary, cont.

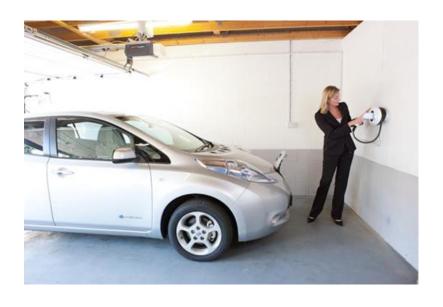
Renewable Energy Ready

- Site evaluation
- Roof or ground mount ready
- Conduit and circuit breaker space in electrical panel





Residential Stretch Code Content Summary, cont.



Electric Vehicle Charging

- Level 2 charging port
- Or; conduit and circuit breaker installation for future charging port



Residential Stretch Code Content Summary, cont.

Water efficiency compliance paths

- U.S. Environmental Protection Agency;
 Water Sense Program or equivalent
 - Water delivery plumbing layout
 - Interior plumbing fixtures
 - Exterior irrigation

Indoor Environmental Quality

- Limit VOC content of finishes
- Meet ventilation requirements

Operations & Maintenance

Comprehensive systems and appliance manuals







Residential Stretch Code

Thank you Questions & Comment Period



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Important Dates & Deadlines

Dec 13, 2017

Dec 22, 2017

Dec 27, 2017

Commercial
 Stretch Code
 Public
 Meeting

- Public
 Comments
 due for the
 Residential
 Stretch Code
- Public
 Comments
 due for the
 Commercial
 Stretch Code

More Information & Documents:

<u>http://www.energy.ri.gov/policies-programs/lead-by-example/case-studies/stretch-code-development.php</u>

