

Rhode Island Residential Stretch Code

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STATE OF RHODE ISLAND
**OFFICE OF
ENERGY RESOURCES**



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Today's Agenda

1. 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 photovoltaic system
- **Alternative paths:**
 - 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



Contact Information: Becca.Trietch@energy.ri.gov
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Important Dates & Deadlines

Dec 13, 2017

- *Commercial*
Stretch Code
Public
Meeting

Dec 22, 2017

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

Dec 27, 2017

- Public
Comments
due for the
Commercial
Stretch Code

More Information & Documents:

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