



VERMONT ENERGY
INVESTMENT CORPORATION

ENERGY STAR High-Rise Multifamily Buildings

- RESNET's Proposed Implementation Plan -

2007 RESNET Conference

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Overview

- Background
- Current status
- Pilot continuation
- RESNET's infrastructure
- Issues
- Next steps



Background

- Working on since early 2000s
- National Working Group (NWG) Pilot
 - NYSERDA Program
 - Standards and implementation infrastructure
 - Pilot buildings
 - New York
 - Oregon
 - Wisconsin
- November meeting
 - Pilot close-out in early 2007
 - RESNET plan proposal to EPA



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RESNET's High-Rise MF Proposal

- Draft of concepts and ideas
- Open to suggestions
- Propose to EPA before summer



Pilot Continuation

- Continue with Existing Projects
 - New York
 - Oregon
 - Wisconsin
- Potential New States -?
 - Texas (TXU)
 - California (Utilities/HMG)
 - NJ (NJCEP/MaGrann)
 - Mass. (JMC/CSG)
 - Georgia (Southface)
 - Vermont (Efficiency Vermont)
 - Others

Local Administrative Entity Criteria

- Grandfather exiting three:
 - NYSERDA
 - Oregon Energy Trust
 - Wisconsin Division of Energy
- State-sanctioned, utility or equivalent with:
 - Influence
 - Oversight
 - Resources
 - Geographic coverage
- Timeframe
 - Near-term delivery potential (completion within two years)

Administrative Entity Criteria Con't

- QA component
- Reporting protocols
- Evaluation participation
- Administrative capabilities
- Training Plan and Resources
- Demonstrated ability to follow protocol (including access to local:)
 - Modelers
 - Verifiers

RESNET Infrastructure Integration

- Develop New High-Rise Multifamily Standing Committee
 - Pull from existing NWG personnel (~10 - 12 people)
 - Members need to be RESNET members
 - Create an Advisory Committee of balance of NWG members



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Multifamily Committee Responsibilities

- Implement Pilot Oversight
- Coordinate with EPA
- Approve new states
- Develop and deliver protocols and standards
- Seek funding
- Training Needs
- Non-energy issues (ventilation, etc.)
- Report to RESNET Board

Standards Development

- Software modeling (MF specific with auto-generation of reference building, BEST-test, etc.)
- Certification of individuals
- QA Program
- Modeling and Verification Procedures

Issues: Scope

- Height
 - Consider expanding current RESNET standards to 4 or 5 stories?
 - Research applicability
 - Delphi process to determine height?
- Building Types
 - Include gut-rehab, modular, green building elements, etc?

Issues Con't

- Reference Building auto-generation
 - TREAT is being developed for NY
- Threshold Parity between IECC and ASHRAE
 - Is 20% savings the right level?
- Pilot Term
 - Is 4 years too far out to have national standard?



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Questions / Comments?



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How does it really work?

- Courtney Moriarta, Steven Winter Design