:: General Meeting 2 Webinar ::

Andrew E. Thompson, AIA, NOMA LEED AP
BD+C
2020 AIANS President
ENERGY STAR
Multifamily New Construction & NJ Clean Energy Program Changes
Introductions

ENERGY STAR MFNC
- Eligibility
- Timeline
- Pathways
- Requirements
- Key Takeaways

NJCEP Updates
Introduction

Brian Stanfill
Operations Manager, New Construction

James Ball
VP of Business Development
Projects in Newark

Walker House
ENERGY STAR Multifamily HighRise

The Hahne Building
ENERGY STAR Multifamily HighRise

Photo courtesy of L + M Development Partners
Projects in Newark

Lofts at Lincoln Park
ENERGY STAR V3.1

City Hall Apartments
LEED for Homes Midrise & ENERGY STAR Multifamily HighRise

Rendering courtesy of Mid-Atlantic Alliance

Rendering courtesy of Buzzbuzzhome.com
Let’s get started
ENERGY STAR MFNC: Eligibility (Old)
ENERGY STAR MFNC: Eligibility (New)
ENERGY STAR MFNC: Eligibility

- Single family = detached homes, two-family dwellings, townhomes (IRC definition)

- A townhome is a single-family dwelling unit constructed in a group of three or more attached units, each unit extends from foundation to roof and with open space on at least two sides.

- Townhomes may choose to use the Multifamily New Construction Checklists as well, but they must use the ERI Path and Certified Homes Reference Design.
ENERGY STAR MFNC: Timeline

- Jan 2019: MFNC available for use
  - A building that complies with all MFNC requirements, regardless of construction permit date, can be certified

- Jan 2021: MFNC required for buildings with permit dates of January 1, 2021 and later
Multifamily New Construction Requirements Overview

- Performance Target
- ASHRAE (Current MFHR)
- ERI (Current Homes)
- Prescriptive (Both)

Unified Mandatory Features

Testing, Verification & Oversight

ENERGY STAR
ENERGY STAR MFNC: Requirements

- HVAC Design Report
- Rater Design Review Checklist
- Rater Field Checklist
- HVAC Functional Testing Checklist
- Water Management System Requirements
Continuous wall insulation – 4 stories or more
Projected Balcony / Elevated Slab Insulation
Compartmentalization test
Common Areas
- Windows
- Envelope
- HVAC
- Lighting
- Hot Water
Heated plenums in garages
- R10 top, R13 bottom, R5 sides
ENERGY STAR MFNC: Key Takeaways

- There are more options until 2021
- Continuous Insulation is main concern for our climate zone
- Choose pathway based on other energy modelling needs
- Ensure paperwork is in scope of work
## NJCEP Residential New Construction Incentives

<table>
<thead>
<tr>
<th></th>
<th>Single Home (i.e., 1&amp;2 family)</th>
<th>Multi-Single (Townhouse)</th>
<th>Rater Incentive</th>
<th>Multifamily</th>
<th>MFHR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ENERGY STAR</strong></td>
<td>$1,000 + $30/ MMBtu</td>
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<td>$4,000 + $30/MMBtu</td>
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<td><strong>ZERH + RE</strong></td>
<td>$4,000 + $30/MMBtu + $2,000</td>
<td>$2,500 + $30/MMBtu + $1,500</td>
<td>$1,200 (single &amp; multi-single only)</td>
<td>$1,500 + $30/MMBtu+$750</td>
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<td><strong>UEZ Bonus</strong></td>
<td>+$500 (add to any level above)</td>
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NJCEP Updates to Current Structure

• $30/MMBTU is based on savings before any savings from Renewable Energy.

• Transition to the new Multifamily Program currently on hold.

• Once Path C of the new Multifamily Program is fully implemented
  • new multifamily buildings with five (5) or more Dwelling Units will be eligible to participate only in that Multifamily Program
  
  • while new multifamily buildings having less than five (5) Dwelling Units will continue to be eligible for this RNC Program.
NJCEP Updates: The New “One-Multifamily” Program

Multifamily Program Pathways

- New Construction
- Existing Buildings
- Whole Building/Comprehensive
  - Path C
- Bundled Measures & Custom
  - Path B
- Single Measure
  - Path A
## NJCEP Rebates: ZERH Higher Incentives

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Improvement in Code
(1975-2015)

EUI
(1975 = 100)

Risk Zone

Image Basis: Building Energy Codes Program: National Benefits Assessment, 1992-2040,
Optimized Enclosure System

2012 / 2015 IECC Envelope Insulation Levels

High Performance Windows

MaGrann ASSOCIATES
Optimized Comfort System

- Optimized Duct Location
- RH Control In Hot/Humid
Complete IAQ System

- Radon
- Low emission materials
- Combustion safety
- Better filtration
Water Protection System

- Sump Pumps
- Flooring Materials
- Sub-Slab Aggregate
Efficient Components System

- Appliances
- Exhaust Fans
- Ceiling Fans
- Lighting (80%)
- Water Heating (target)

+ Efficient Hot Water Distribution
More options in 2020 to determine a compliance path
MFNC full implementation January 2021
For our region, continuous insulation biggest concern for projects, 4+ stories
Common area requirements
NJCEP new multifamily program on horizon
ZERH is a great option for your project to max. incentives
Find a trusted source, like us, to help you navigate all this!
Thank you!

James Ball
jamesball@magrann.com
202-821-3734

Brian Stanfill
brianstanfill@magrann.com
856-308-8158