



A Beginner's Guide to ENERGY STAR Multifamily New Construction

January 27, 2025



Poll

- How familiar are you with ENERGY STAR MFNC?
 - A. I am not familiar.
 - B. I've worked with SFNH, but not MFNC.
 - C. I have a basic understanding of MFNC.
 - D. I'm already working on buildings pursuing MFNC certification.



Agenda

1. Federal Tax Credits
2. Overview of ENERGY STAR Multifamily New Construction Program
 - Eligibility requirements
 - Key elements of the program requirements
 - Certification process overview
3. MFNC Website

45L Federal Tax Credits for Energy-Efficient Homes





§ 45 L Federal Tax Credit

- New Energy Efficient Home Credit now updated and extended through 2032
- Applies to eligible homes and apartments acquired on or after January 1, 2023

§ 45L Federal Tax Credit

Residential Building Type	Minimum Eligible Version	ENERGY STAR MFNC	Zero Energy Ready Homes
Certified Units in Multifamily Buildings	Varies by Program, Year, and Location	\$500	\$1,000
Certified Units in Multifamily Buildings when prevailing wage requirements are met	Varies by Program, Year, and Location	\$2,500	\$5,000



§ 45L Federal Tax Credit



For **ENERGY STAR**, the minimum eligible program version for the tax credit is determined relative to the dwelling unit's **acquisition date** (not the permit date).



Tables of minimum eligible versions are on the ENERGY STAR website for acquisitions made in 2023 – 2028 at www.energystar.gov/45Ltaxcredits.



Note that minimum eligible version for tax credit can be more stringent than what is required just for certification.

§ 45L Federal Tax Credit

Minimum ENERGY STAR Version Eligible for § 45L Tax Credit For Dwelling Units Acquired in 2025

State/Territory	Single-Family	Manufactured	Multifamily
AL, AK, AZ, AR, CO, CT, DE, DC, FL, GA, ID, IL, IN, IA, KS, KY, LA, ME, MD, MA, MI, MN, MS, MO, MT, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, PA, RI, SC, SD, TN, TX, UT, VT, VA, WV, WI, WY	SFNH National v3.2	MH v2	MFNC National v1.1
CA	SFNH California v3.3	MH v2	MFNC California v1.3
HI	SFNH Pacific v3	MH v2	MFNC National v1.1
OR, WA	SFNH National v3.2	MH v2	MFNC Oregon and Washington v1.2; or MFNC National v1.2



§ 45L Federal Tax Credit

Minimum ENERGY STAR Version Eligible for § 45L Tax Credit For Dwelling Units Acquired in 2027

State/Territory	Single-Family	Manufactured	Multifamily
AL, AK, AZ, AR, CO, CT, DE, DC, FL, GA, ID, IL, IN, IA, KS, KY, LA, ME, MD, MA, MI, MN, MS, MO, MT, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, OR, PA, RI, SC, SD, TN, TX, UT, VT, VA, WA, WV, WI, WY	SFNH National v3.2	MH v3	MFNC National v1.2
CA	SFNH California v3.5	MH v3	MFNC California v1.4
HI	SFNH Pacific v3.2	MH v3	MFNC National v1.2

§ 45L Federal Tax Credit

Minimum ENERGY STAR Version Eligible for § 45L Tax Credit For Dwelling Units Acquired in 2028*

State/Territory	Single-Family	Manufactured	Multifamily
AL, AK, AZ, AR, CO, CT, DE, DC, FL, GA, HI, ID, IL, IN, IA, KS, KY, LA, ME, MD, MA, MI, MN, MS, MO, MT, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, OR, PA, RI, SC, SD, TN, TX, UT, VT, VA, WA, WV, WI, WY	To be determined	To be determined	MFNC National v1.2
CA	To be determined	To be determined	MFNC California v1.5

Based on the timelines prescribed in the tax code, EPA anticipates that **MFNC v1.3** will become the minimum eligible version required for the § 45L Tax Credit in 2029.



Tax Credit Questions?

“Individuals or entities looking to claim the credit should consult with a tax professional to determine whether and how they can claim the credit and determine whether the credit can be used with other tax incentives or Federal incentives.”



ENERGY STAR Multifamily New Construction Program



Eligibility Requirements



Residential New Construction Eligibility

Single-Family New Homes:



Detached Single-Family



Detached Two-Family



Townhouses

Multifamily New Construction:



Low-rise Multifamily



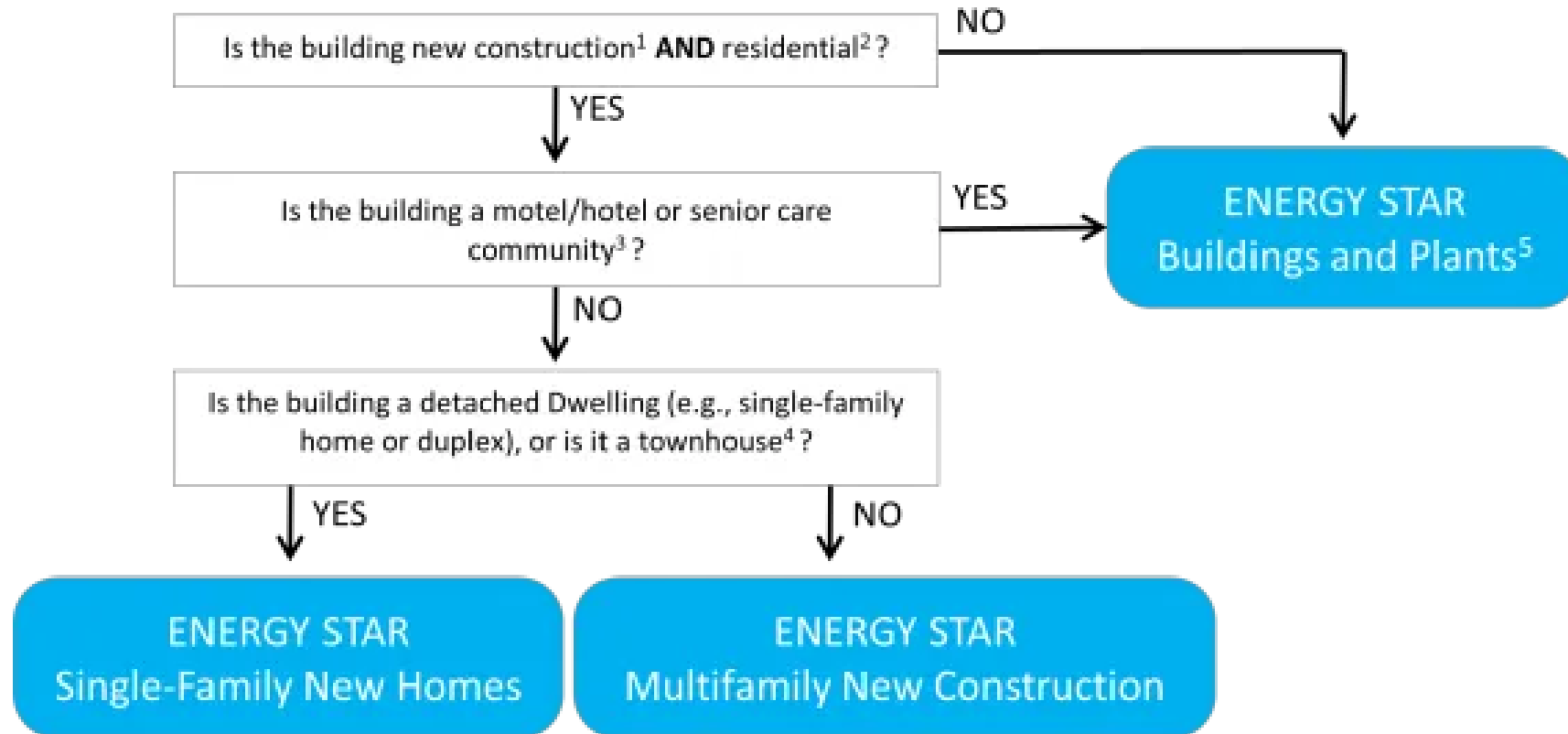
High-rise Multifamily



Mixed-use Multifamily

Residential New Construction Eligibility

EPA ENERGY STAR Multifamily New Construction Program Decision Tree



Key Elements of Program Requirements

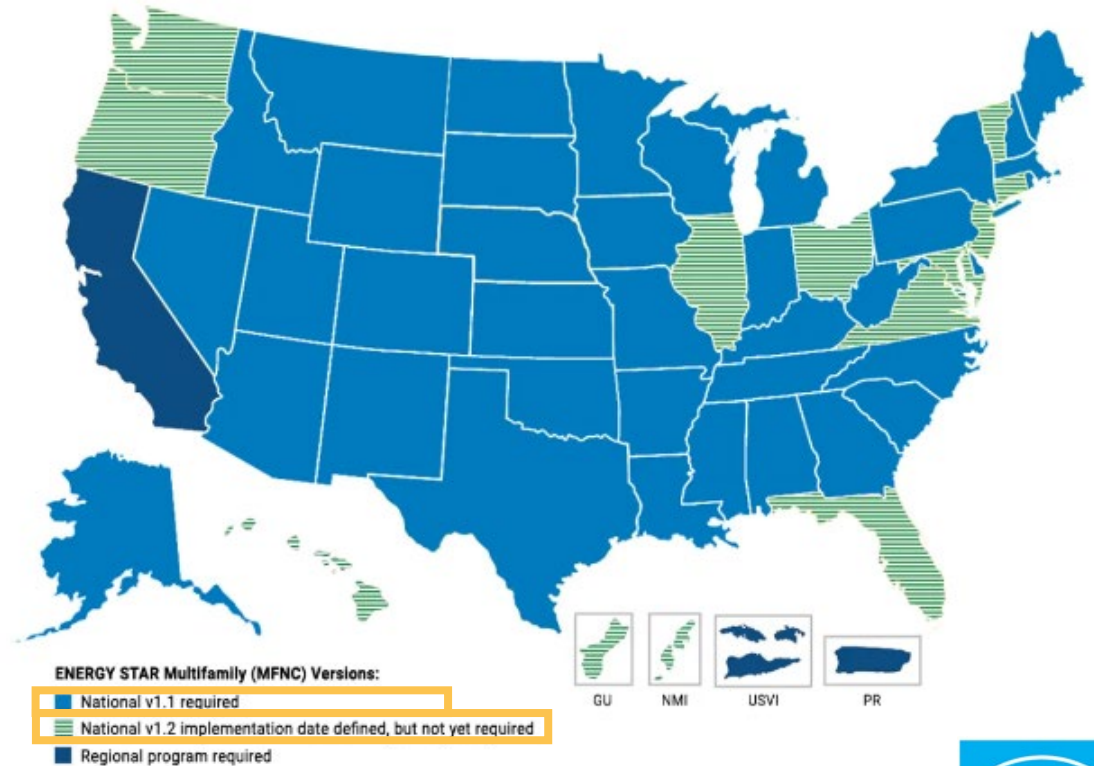


Multifamily New Construction: Key Elements

Efficiency & Testing	<ul style="list-style-type: none">• Above-code performance of dwelling units and common spaces• Third-party inspection and functional tests
Comfort	<ul style="list-style-type: none">• Complete thermal enclosure system• Individually-sealed dwelling units• Properly sized & installed HVAC system
Air Quality	<ul style="list-style-type: none">• Dwelling-unit fresh air system• Kitchen and bath fans that perform well and exhaust outside• Combustion safety

Efficiency & Testing: Above-code performance

- Designed to be $\geq 10\%$ above code
- National Versions:
 - Version 1.1 - Implemented in states with code less stringent than 2021 IECC
 - Version 1.2 - Implemented in states with code equivalent to 2021 IECC
 - Version 1.3 Implemented in states with code equivalent to 2024 IECC
- Three Paths available: ERI, ASHRAE, Prescriptive
- Performance target is defined differently in California and the Caribbean.



Above-code performance: Energy Rating Index (ERI) Path

- Available for any height bldg
 - All dwelling units meet an ENERGY STAR ERI Target
 - Common Spaces meet prescriptive measures
- ENERGY STAR Multifamily Reference Design determines ERI Target
 - National v1.1 is ~55-65
 - National v1.2 is ~45-55
 - National v1.3 is ~40-50
- Not available in CA



Above-code performance: ASHRAE Path

Whole-Building Modeled Energy Savings

- 15% cost savings above ASHRAE 90.1 App G
 - National v1.1 is 15% better than ASHRAE 90.1-2016
 - National v1.2 is 15% better than ASHRAE 90.1-2019
 - National v1.3 is 15% better than ASHRAE 90.1-2022
- Alt. options:
 - Source savings
 - WUFI metric for PHIUS cert. projects
- CA: 10% better than Title 24



Above-code performance: Prescriptive Path

- No energy modeling
- Available for all projects (except CA)
- ENERGY STAR Multifamily Reference Design specifications are required (in-unit and common areas)
- Additional requirements beyond ENERGY STAR Multifamily Reference Design (e.g. in-unit lighting power density, building level window-to-wall ratio)

Efficiency & Testing: Above-code performance

Requirements cover whole building – includes all dwelling units **and** common spaces

- 100% dwelling units **and** common spaces must meet requirements
- Requirements for central systems and systems serving common spaces and garages
- ERI & Prescriptive Paths have additional efficiency measures in common spaces, including limits on electric resistance space heating
- Utility data collection strategy for buildings $\geq 50,000$ ft²



Poll

- Which Paths do you plan to use?
 - A. ERI Path
 - B. ASHRAE Path
 - C. Prescriptive Path

Multifamily New Construction: Key Elements

Efficiency & Testing	<ul style="list-style-type: none">✓ Above-code performance of dwelling units and common spaces• Third-party inspection and functional tests
Comfort	<ul style="list-style-type: none">• Complete thermal enclosure system• Individually-sealed dwelling units• Properly sized & installed HVAC system
Air Quality	<ul style="list-style-type: none">• Dwelling-unit fresh air system• Kitchen and bath fans that perform well and exhaust outside• Combustion safety

Efficiency & Testing: Third-party inspection and functional tests



You don't know what you don't inspect

Efficiency & Testing: Third-party inspection and functional tests



Rater Inspections:

- Pre-Drywall
- Final

Rater Tests:

- Dwelling-unit air tightness (blower door)
- Dwelling-unit duct blaster test (if ducts present)
- Dwelling-unit ventilation airflow test
- Central exhaust duct tightness test (if present)
- Common space ventilation airflow tests
- Indoor unit functional testing
- Grade I or II HVAC installation (or HVAC Functional Testing by Functional Testing Agent)

Multifamily New Construction: Key Elements

Efficiency & Testing	<ul style="list-style-type: none">✓ Above-code performance of dwelling units and common spaces✓ Third-party inspection and functional tests
Comfort	<ul style="list-style-type: none">• Complete thermal enclosure system• Individually-sealed dwelling units• Properly sized & installed HVAC system
Air Quality	<ul style="list-style-type: none">• Dwelling-unit fresh air system• Kitchen and bath fans that perform well and exhaust outside• Combustion safety

Comfort: Complete thermal enclosure system



Effective Insulation Levels and Window Performance ('Thermal Backstop')



Grade I Insulation



Continuous Insulation for Mass/Metal-framed Buildings



Air Barriers & Sealing

Comfort: Individually-sealed dwelling units



Comfort: Properly sized and installed HVAC system



Comfort: Properly sized and installed HVAC system

Grade I or II HVAC installation (or HVAC Functional Testing)



Improper airflow
in nearly **50%**
of systems



Incorrect charge
in **60-80%**
of systems

The Five Key Rater Tasks in HVAC Grading

Task 1	Task 2	Task 3	Task 4	Task 5
Design Review	Total Duct Leakage	Blower Fan Airflow	Blower Fan Watt Draw	Refrigerant Charge

Multifamily New Construction: Key Elements

Efficiency & Testing	<ul style="list-style-type: none">✓ Above-code performance of dwelling units and common spaces✓ Third-party inspection and functional tests
Comfort	<ul style="list-style-type: none">✓ Complete thermal enclosure system✓ Individually-sealed dwelling units✓ Properly sized & installed HVAC system
Air Quality	<ul style="list-style-type: none">• Dwelling-unit fresh air system• Kitchen and bath fans that perform well and exhaust outside• Combustion safety

Air Quality: Dwelling-unit fresh air system



Exhaust Fan



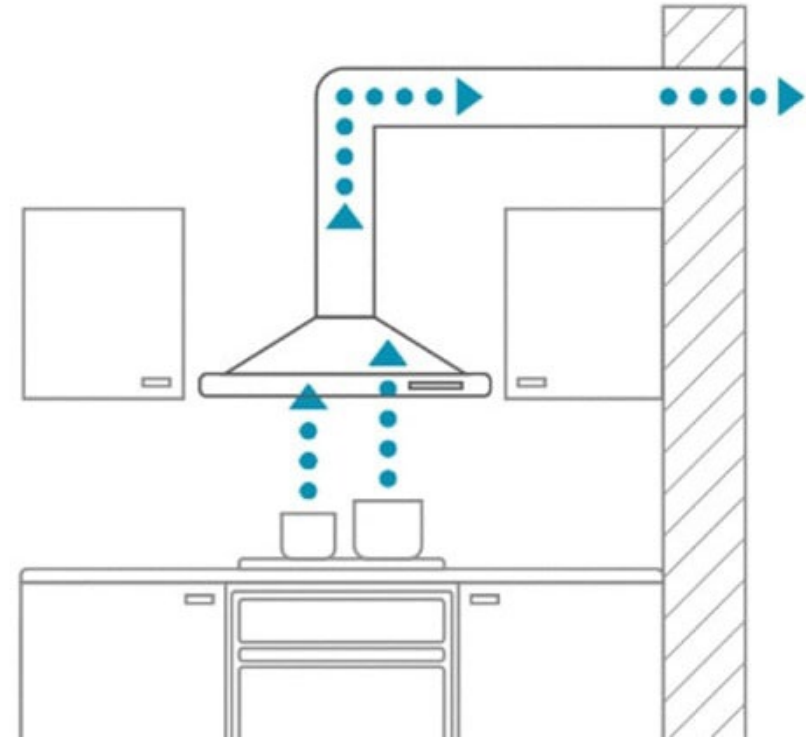
Supply Fan



ERV / HRV



Air Quality: Kitchen & bath fans that perform well & exhaust outside



Kitchen & Bath Fans Must Exhaust Outside and Meet Airflow & Sound Limits



Air Quality: Combustion safety



Power-Vented
Water Heater



Electric
Water Heater

- Other option - combustion appliances moved outside building pressure boundary

Multifamily New Construction: Key Elements

Efficiency & Testing	<ul style="list-style-type: none">✓ Above-code performance of dwelling units and common spaces✓ Third-party inspection and functional tests
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Air Quality	<ul style="list-style-type: none">✓ Dwelling-unit fresh air system✓ Kitchen and bath fans that perform well and exhaust outside✓ Combustion safety

Certification Process



ENERGY STAR

Partners and Participants



ES MFNC Partners & Participants



Builder/
Developer



Rater



HVAC
Designer



Functional
Testing Agent



ASHRAE Modeler
(ASHRAE Path)



Architect



Multifamily Oversight Orgs
Home Certification Org (ERI Path)
Multifamily Review Org (ASHRAE / Prescriptive Paths)

ENERGY STAR MFNC Partners

Builders & Developers

Role & Expectations

- Work with a [Rater](#) in your area

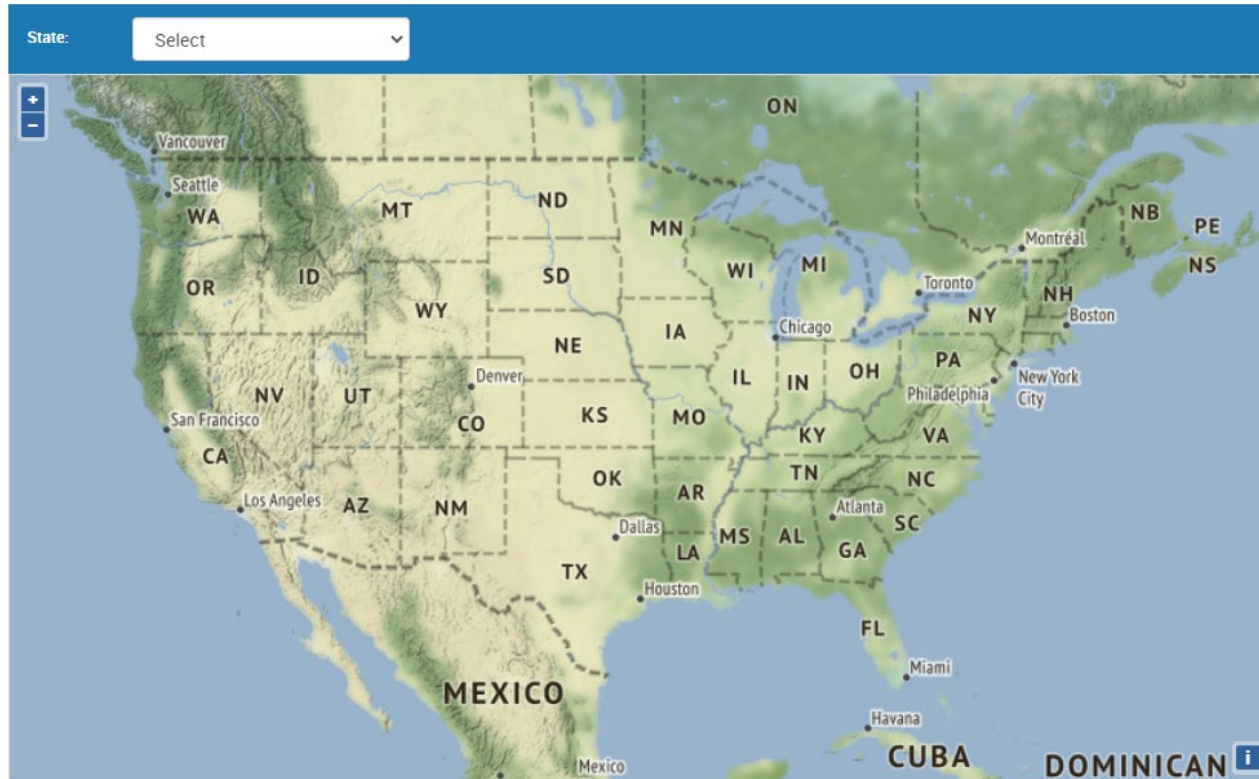


ENERGY STAR MFNC Partners

Locate Builders, Developers, Energy Rating Companies, and Incentives in Your Area

Use the interactive map below to search for home builders, developers, and energy rating companies in your area who are constructing and verifying ENERGY STAR certified new homes and apartments, as well as available incentives. Or, use our [Multifamily Building Locator](#) to search for ENERGY STAR certified apartments and condos.

Learn more about the features and benefits of ENERGY STAR certified homes and apartments.



Program Summary for Minnesota:

- 10,660 ENERGY STAR certified homes and apartments built to date
- 494 ENERGY STAR certified homes and apartments built 2021
- 600 ENERGY STAR certified homes and apartments built in 2020
- 78 ENERGY STAR Residential New Construction Partners

See the [Market Share](#) for ENERGY STAR certified homes by State

Program Impact Equivalents for ENERGY STAR certified homes and apartments built in Minnesota for 2020:

- Reducing CO₂ emissions by 15,574 metric tons
- Growing 257,972 tree seedlings for 10 years
- Avoiding the consumption of 36,244 barrels of oil
- Removing 3,369 passenger vehicles from the road

[← BACK TO NATIONAL SEARCH](#)

Expand All Collapse All

Builders/Developers Serving Minnesota

Energy Rating Companies Serving Minnesota

Energy Rating Company	Service Areas	Partner Since	Number of Homes and Apartments Certified
[Redacted]	Dubuque ; Providence-Warwick ; Syracuse ; Chicago-Naperville-Elgin ; Rochester ; Other NC areas ; Athens-Clarke County ; Buffalo-Cheektowaga-Niagara Falls ; Other NH areas ; New York-Newark-Jersey City	2010	<ul style="list-style-type: none"> • Last 12 months in location selected: 394 • All time in location selected: 1136 • All time in all service areas: 24026
[Redacted]	Minneapolis-St. Paul-Bloomington ; Other MN areas ; Bay City ; Mankato-North Mankato ; Rochester	2005	<ul style="list-style-type: none"> • Last 12 months in location selected: 55 • All time in location selected: 774 • All time in all service areas: 775



ENERGY STAR MFNC Partners

Builders & Developers

Role & Expectations

- Work with a [Rater](#) in your area
- Either the Builder OR Developer must be a partner

Requirements

- Complete [Online Partnership Agreement](#)
- View online orientation [video](#)



ENERGY STAR MFNC Partners

Raters

Roles & Expectations

Verify that all requirements have been met, starting at Schematic/Design

- Rater Design Review and Field Checklists

Collect Additional Documentation

- HVAC Design Report
- HVAC Functional Testing Checklist*
- ASHRAE Path: Compliance Form/Companion Tool, Model Input/Output Files
- MF Workbook, Photo Documentation

- *Not required to be collected if completed by a credentialed contractor



ENERGY STAR MFNC Partners

Raters

Requirements

- a) Be a Certified Rater, Approved Inspector, or an equivalent designation as determined by a Home Certification Organization (HCO) or Multifamily Review Organization (MRO)
- b) Have attended and successfully completed an EPA-recognized training class
 - SFNH & MFNC Rater Training
- c) Be an ENERGY STAR Partner



ENERGY STAR MFNC Participants

HVAC Designer

Roles & Expectations

Complete the MFNC HVAC Design Report and provide to the Rater

Requirements

None



ENERGY STAR Multifamily New Construction National HVAC Design Report ¹ , Version 1 / 1.1 / 1.2 (Rev. 04)					
HVAC Designer Responsibilities: <ul style="list-style-type: none">• Complete one National HVAC Design Report for each building which includes system design for all unique unit plans and common spaces. For projects with multiple buildings, one National HVAC Design Report per building or per project is permitted. ¹• Obtain efficiency features (e.g., window performance, insulation levels, and infiltration rate) from the builder, architect, or Rater. ²• Provide the completed National HVAC Design Report to the Rater and the person / company completing the National HVAC Functional Testing Checklist. ²					
1. Design Overview					
1.1 Designer name: _____ Designer company: _____ Date: _____					
1.2 Select which party you are providing these design services to: <input type="checkbox"/> Builder / Developer <input type="checkbox"/> FT Agent <input type="checkbox"/> MEP / Credentialed HVAC contractor					
1.3 Name of company you are providing these design services to (if different than Item 1.1): _____					
1.4 Building address: _____ City: _____ State: _____ Zip code: _____					
2a. Dwelling Unit & Common Space Mechanical Ventilation Design ("Vent System") ³ & Inlets in Return Duct ^{4, 5, 6}					Designer Verified
Airflow:					
2.1 Dwelling unit ventilation airflow design rate & run-time meet the requirements of Section 4 of ASHRAE 62.2 ⁷ – _____ Prescriptive Path Only: Rates shall not exceed 2013 rates by more than 50%. ⁸					<input type="checkbox"/>
2.2 Common space outdoor airflow design rate meet the requirements of Section 6 of ASHRAE 62.1 ^{9, 10} – _____ ERI and Prescriptive Path Only: Rates shall not exceed 2013 rates by more than 50%.					<input type="checkbox"/>
2.3 Access points to measure airflow rate and inspect outdoor air dampers are provided and accessible by the Rater. ^{2, 11}					<input type="checkbox"/>
List unique unit plan for which 62.2 ventilation rates were calculated in the spaces to the right: ¹²					
2.4 # of bedrooms:					
2.5 Square footage:					



ENERGY STAR MFNC Participants

Functional Testing Agents

Roles & Expectations

- Complete section(s) of the MFNC HVAC Functional Testing Checklists

Requirements

- Maintain one of the [required credentials](#)
 - H-QUITO credentialed contractor, functional testing credentials (including PE), or OEM representative
- Watch online orientation & be listed [in the directory](#) (unless a credentialed contractor)



ENERGY STAR MFNC Participants

ASHRAE modelers

Role & Expectations

- Create ASHRAE 90.1 whole building energy models
 - Use Appendix G & the Simulation Guidelines
- Complete the Compliance Form and Companion Tool, at Design and As-Built

Requirements

- Watch [online orientation](#) & be listed [in the directory](#)



ENERGY STAR MFNC Participants

Multifamily Oversight Organizations

Home Certification Organization (HCO)

- ERI Path

Multifamily Review Organization (MRO)

- ASHRAE and Prescriptive Paths



Program Documents



ENERGY STAR MFNC Program Documents

- National and Regional Program Requirements
- Rater Design Review Checklist
- Rater Field Checklist
- HVAC Design Report
- HVAC Functional Testing Checklist

ENERGY STAR MFNC Program Documents

- National and Regional Program Requirements
- Rater Design Review Checklist
- Rater Field Checklist
- HVAC Design Report
 - **Std. 310 Design Report and ENERGY STAR Std. 310 Supplements**
- HVAC Functional Testing Checklist

ENERGY STAR MFNC Program Documents

- National and Regional Program Requirements
- Rater Design Review Checklist
- Rater Field Checklist
- HVAC Design Report
- HVAC Functional Testing Checklist
 - **Sampling Protocols**

ENERGY STAR MFNC Supporting Documents & Tools

- Multifamily Workbook - Excel
 - What's in it?*
 - Rater Design Review and Field Checklists
 - Testing results
 - Compliance checks
 - When is it used?*
 - Required for all paths
 - Not all worksheets required for ERI Path
- Photo Documentation
 - ASHRAE & Prescriptive submit to MRO
 - ERI submit to Provider

ENERGY STAR MFNC Program Checklists & Tools

National Rater Design Review Checklist 1

ENERGY STAR Multifamily New Construction, Version 1/1.1/1.2 (Rev. 01)

If pursuing Path A – Dwelling Unit HVAC Grading, complete this page. 1

Project Name: _____ Permit Date: _____
Project Address: _____ City: _____
Builder Name: _____ Developer Name: _____

Item	Owner	Builder	Verified
1.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Ratee Name: _____ Date of Review: _____
Rater Signature: _____ Rater Company Name: _____

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National Rater Field Checklist 1

ENERGY STAR Multifamily New Construction, Version 1/1.1/1.2 (Rev. 01)

Project Name: _____ Permit Date: _____
Project Address: _____ City: _____
Builder Name: _____ Developer Name: _____

Item	Must Comply	Builder Verified	Rater Verified	NA
1.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.16	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.17	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.18	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.19	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.21	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.22	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.23	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.24	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.25	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.26	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.27	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.28	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.29	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.30	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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National HVAC Design Report 1

ENERGY STAR Multifamily New Construction, Version 1/1.1/1.2 (Rev. 01)

Project Name: _____ Permit Date: _____
Project Address: _____ City: _____
Builder Name: _____ Developer Name: _____

Item	Compliant	Builder Verified	Rater Verified	NA
1.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.16	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.17	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.18	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.19	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.21	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.22	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.23	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.24	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.25	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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1.27	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.28	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.29	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.30	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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National HVAC Functional Testing Checklist 1

ENERGY STAR Multifamily New Construction, Version 1/1.1/1.2 (Rev. 01)

Project Name: _____ Permit Date: _____
Project Address: _____ City: _____
Builder Name: _____ Developer Name: _____

Item	Compliant	Builder Verified	Rater Verified	NA
1.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.16	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.17	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.18	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.19	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.21	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.22	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.23	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.24	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.25	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.26	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.27	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.28	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.29	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.30	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Revised 10/18/2019 Page 1 of 5

HVAC Functional Testing Checklist

See Sample & Excel version Online

See Excel version Online

The entire spreadsheet is optional for MRI projects, but it may be useful for project teams looking for elements tracking options. It is submitted to the MRG initially to document compliance with requirements at Design, and then again after construction is complete. If Proposed Design enables the MRG to comment on whether the item is designed for compliance. Where information is not provided or is not adequately described at Proposed Design, MRG may at their discretion approve the submitter or request a re-submission. Items required to be completed at Design, are indicated below in the Tab Instructions and/or on each tab.

Tab Number	Tab Name	Tab Instructions
1a	Rater Design Checklist	Enter general project information in this tab. This information will autopopulate tabs throughout the workbook. Use buttons at the top to enter project details. Applicable checklist items will display. Use the Show Footnote(s) (Hide Footnote(s)) buttons to display applicable footnotes as needed. View is optimized for 100% Zoom. Must have Rater Verified column completed at Proposed Design submission. This tab is not reviewed during the As-Built submittal.
1b	Rater Field Checklist	Use buttons at the top to enter project details. Applicable checklist items will display. Use the Show Footnote(s) (Hide Footnote(s)) buttons to display applicable footnotes as needed. View is optimized for 100% Zoom. This tab is only reviewed during the As-Built submittal. Enter data/test results into yellow and orange cells. See instructions on each tab for further details.

Introduction Project Information 1a Rater Design Checklist 1b Rater Field Checklist 2.1 Listing Results 3a Common Area Ventilation 3b Central Exhaust Duct Test 4 Appliances 5.1

ENERGY STAR MULTIFAMILY NEW CONSTRUCTION Photo Documentation Guidance Document

For ASHRAE and Prescriptive Path projects (and for MRI Path projects when required by your GSO), use this guidance as a guide to complete the photo documentation requirements for the ASHRAE and Prescriptive Path projects. Please provide the MRG with a copy of all applicable photos or documents used from these appendices or email to energy@energystar.gov. Check these documents for a separate document to make. Ensure that nomenclatures and details demonstrating compliance are clearly identifiable in the photos.

1 - APPLIANCES

1. Include a close-up photo of each unique appliance below showing appliance efficiency and capacity. Where efficiency is not reported on the nomenclature, provide Appliance Efficiency (Rated Input (Watt) (Rated Input (BTU/h))

2 - DHW

1. Include a close-up photo of the nomenclature of each unique water heating storage tank (water efficiency and capacity). Where efficiency is not reported on the nomenclature, provide Appliance Efficiency (Rated Input (Watt) (Rated Input (BTU/h))



MFNC Policy Record & Revisions



Policy Record

ENERGY STAR New Homes & Apartments

- Work with ENERGY STAR ▶
- Program Requirements ▶
- Residential Resources ▶
- Build ENERGY STAR NextGen ▶
- Awards & Recognition
- Policy & Archives ▼
 - Stakeholder Feedback
 - Policy Record
 - Archives ▶
- Homebuyer & Renter Resources
- About Us ▶

Policy Record

The EPA will periodically revise the program requirements during their implementation in response to partner questions and evolving standards (e.g., ENERGY STAR labeled product specifications, NAECA standards, model energy codes). Revisions will be made on an as needed basis; however, the guidelines typically will not be updated more frequently than every three months and after a year of implementation, the updates will slow to every six months.

SINGLE FAMILY

MULTIFAMILY

MANUFACTURED

NEXTGEN

Policy Record

- [Current Policy Record](#) (PDF, 1.14 MB) - This document contains policy issues that were received and have been resolved since the release of Version 1, some of which may result in modifications that will be incorporated into the next revision of the program documents. This document was posted on January 15, 2025.
- [Archive of Policy Record](#) (PDF, 3.76 MB) – This document contains all resolved policy issues that have previously appeared in the Current Policy Record. This document was posted on January 15, 2025.



Policy Record (Example)

ENERGY STAR Multifamily New Construction Policy Record

ID	Log Date	Program Document	Classification	Topic
00212	08/17/2021	Rater Field Checklist, Version 1/1.1 (Rev.02)	Clarification	Item 3.7.1 – Mineral wool considered rigid insulation
				Issue: Partners have asked if mineral wool insulation could be used as continuous rigid insulation to meet reduced thermal bridging requirements.
				Resolution: Mineral wool can be considered 'rigid' because it has good structural integrity, even in its standard semi-rigid form. Therefore, it is permitted to be used as continuous rigid insulation to meet reduced thermal bridging requirements, <u>provided that it is continuous across all structural members without thermal bridges other than fasteners and service openings.</u>

MFNC Versions & Revisions



ENERGY STAR Multifamily New Construction Applicable Program Requirements, Versions, and Revisions by Location (Rev. 05)

This document, available at <http://www.energystar.gov/mfnc>, is designed to be used in conjunction with the Multifamily New Construction (MFNC) national and regional program requirements documents. Use Exhibit 1 or, for California, Exhibit 2 to determine the applicable MFNC program requirements, including the minimum Version and Revision, to which a building is eligible to be certified. For information about the minimum program versions eligible to satisfy the Section 45L New Energy Efficient Home Credit, visit www.energystar.gov/taxcredits.

A building may only be certified to the MFNC program requirements applicable to the location of the building, as listed in the Exhibits below. For locations where both national and regional program requirements have been listed, a building may be certified to either one.

Where the EPA has defined a newer Version and / or Revision of the same ENERGY STAR program requirements, buildings are eligible to be certified to the new Version / Revision. For example, if a building is eligible to be certified to Version 1.1 of the MFNC National Program Requirements, then it is also eligible to be certified to Version 1.2 of the MFNC National Program Requirements.

Exhibit 1 and 2 contain all Versions and Revisions eligible for use for buildings permitted on or after January 1, 2023. Program requirements applicable prior to this date can be found in the [Archives](#).

Exhibit 1: Applicable ENERGY STAR MFNC Program Requirements, Versions, and Revisions for All Locations Except California

Building Is Built in This State Or Territory:	Building Is Permitted ^{1,2} On or After This Date:	For Buildings Meeting the Adjacent Criteria, These Are the Applicable Program Requirements, Including Minimum Version ("v") & Revision ("Rev.")	
AL, AK, AZ, AR, CO, IN, ID, KS, KY, LA, MS, MO, NH, NC, ND, OK, SC, SD, TN, WV, WI, WY	07-01-2021	MFNC National v1	Rev. 02
	01-01-2024	MFNC National v1.1	Rev. 03
	01-01-2025	MFNC National v1.1	Rev. 04
	01-01-2026	MFNC National v1.1	Rev. 05
DC, DE, IA, MA, MI, MN, MT, NE, NV, NY, PA, RI, TX	07-01-2021	MFNC National v1.1	Rev. 02
	01-01-2024	MFNC National v1.1	Rev. 03
	01-01-2025	MFNC National v1.1	Rev. 04
	01-01-2026	MFNC National v1.1	Rev. 05



Quiz

- Example: A building in AZ is permitted 01/24 and acquired 08/27. What minimum program version must be used for certification and for §45L federal tax credit?
 - A. Certification: National v1.1 Tax credit: National v1.1
 - B. Certification: National v1.1 Tax credit: National v1.2**
 - C. Certification: National v1.2 Tax credit: National v1.2

Exhibit 1: Applicable ENERGY STAR MFNC Program Requirements, Versions, and Revisions for All Locations Except California

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	01-01-2024	MFNC National v1.1	Rev. 03
	01-01-2025	MFNC National v1.1	Rev. 04
DC, DE, IA, MA, MI, MN, MT, NE, NV, NY, PA, RI, TX	07-01-2021	MFNC National v1.1	Rev. 02
	01-01-2024	MFNC National v1.1	Rev. 03
	01-01-2025	MFNC National v1.1	Rev. 04
GA, NM, UT	07-01-2021	MFNC National v1	Rev. 02
	07-01-2022	MFNC National v1.1	Rev. 02
	01-01-2024	MFNC National v1.1	Rev. 03

Minimum ENERGY STAR Version Eligible for § 45L Tax Credit For Dwelling Units Acquired in 2027

State/Territory	Single-Family	Manufactured	Multifamily
AL, AK, AZ, AR, CO, CT, DE, DC, FL, GA, ID, IL, IN, IA, KS, KY, LA, ME, MD, MA, MI, MN, MS, MO, MT, NE, NV, NH, NJ, NM, NY, NC, ND, OH, OK, OR, PA, RI, SC, SD, TN, TX, UT, VT, VA, WA, WV, WI, WY	SFNH National v3.2	MH v3	MFNC National v1.2
CA	SFNH California v3.5	MH v3	MFNC California v1.4
HI	SFNH Pacific v3.2	MH v3	MFNC National v1.2



Putting it all together...



Mandatory Requirements



Model unit-by-unit energy savings based on the ERI target and follow a prescriptive package of energy efficient measures developed by EPA in common spaces.

(Not available in California.)

ERI

Model energy savings of the building's design compared to ASHRAE 90.1 (or Title 24 in California).

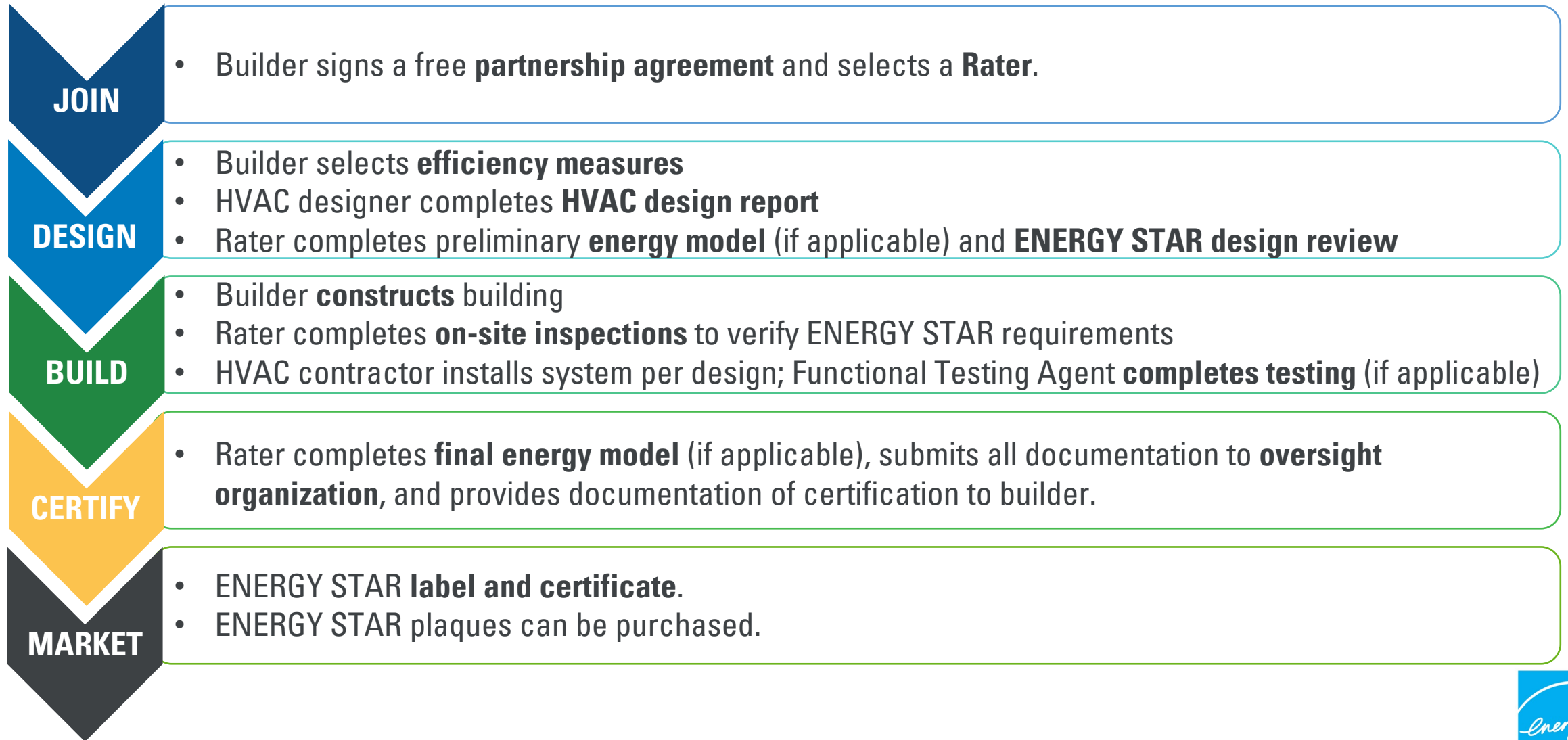
ASHRAE

Use a prescriptive package of energy efficient measures developed by EPA.

(Not available in California.)

Prescriptive


Certification Process



Certificate

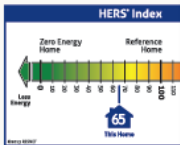
Unit (Required)

Building (Optional)



**ENERGY STAR® CERTIFIED
NEW CONSTRUCTION**

Builder/Developer Name: Gamble Builders
Permit Date/Number: 4 April 2011
Home/Unit Address: 1310 L Street
 Washington DC 20005
Rating Company: G Force Testing
Rater Identification Number: 2345678
Rating Date: 6 July 2011
ENERGY STAR Program/Version Number: 3.0



HERS® Index

Zero Energy Home Reference Home

Low Energy High Energy

65
This Home

This value is not intended to be used for comparison.

Standard Features of ENERGY STAR Certified New Homes and Apartments

Your ENERGY STAR certified new home or apartment has been designed, constructed, and independently verified to meet rigorous requirements for energy efficiency set by the U.S. Environmental Protection Agency (EPA), including:

Thermal Enclosure System

A complete thermal enclosure system that includes comprehensive air sealing, quality-installed insulation, and high-performing windows to deliver improved comfort and lower utility bills.

Air Infiltration Test: 4 ACH50

Primary Insulation Levels:
 Ceiling: R-30 Floor: R-10
 Wall: R-19 Slab: R-4

Primary Window Efficiency:
 U-Value: 0.60 SHGC: 0.27

Water Management System

A comprehensive water management system to protect roofs, walls, and foundations.

Flashing, a drainage plane, and site grading to move water from the roof to the ground and then away from the home or building.

Water-resistant materials on below-grade walls and to reduce the potential for water entering the home or building.

Management of moisture levels in building materials.

Thermal Enclosure System

A complete thermal enclosure system that includes comprehensive air sealing, quality-installed insulation, and high-performing windows to deliver improved comfort and lower utility bills.

Air Infiltration Test: 4 ACH50

Primary Insulation Levels:
 Ceiling: R-30 Floor: R-10
 Wall: R-19 Slab: R-4

Primary Window Efficiency:
 U-Value: 0.60 SHGC: 0.27

Heating, Cooling, and Ventilation System

A high-efficiency heating, cooling system, and ventilation system that is designed and installed for optimal performance.

ENERGY STAR Certified Appliances and Fans:
 Refrigerators: 1 Dishwashers: 1
 Ceiling Fans: 4 Exhaust Fans: 3

Primary Water Heater (System Type • Fuel Type • Efficiency):
 Electric Resistance Heater • Electric • 0.94 EF

Heating, Cooling, and Ventilation System

A high-efficiency heating, cooling system, and ventilation system that is designed and installed for optimal performance.

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About this certificate
 The certificate provides a summary of the major energy efficiency and other construction features that contribute to this home or apartment meeting the ENERGY STAR, as determined through independent inspection and verification performed by a third-party professional. The Energy Rating Index or HERS Index for this home, (except as indicated in accordance with ENERGY STAR/ENERGY STAR Standard 301, with any exceptions approved by EPA. Because the version of Standard 301 used to calculate this index may not align with the version referenced by code, this value is not intended to be used to demonstrate compliance with code. Note that when a home or apartment contains multiple performance levels for a particular feature (e.g., window efficiency or fan/lighting), the predominant value is shown. Also, boxes and components may be certified to meet the ENERGY STAR using a sampling protocol, whereby one home or apartment is randomly selected to test for representative inspection and testing. In such cases, the features listed in each home or apartment within the set are intended to meet or exceed the values presented on this certificate. The actual values for your home or apartment may differ, for either the appliances or better performance. This certificate was printed using ENERGY STAR v15.1.1. © 1999-2019 HERSI/ESCO, Boulder, Colorado



**ENERGY STAR® CERTIFIED
NEW CONSTRUCTION**

The U.S. Environmental Protection Agency awards the ENERGY STAR to

L Street Building

1310 L Street, Washington, DC, 20005

Certification Date:
January 1, 2023

ENERGY STAR certified multifamily buildings are designed, constructed, and independently verified to meet rigorous requirements for energy efficiency set by the U.S. Environmental Protection Agency.

Built by: Gamble Builders
Verified by: G Force Testing

Units: 100 **Version:** MFNC v1.1
Oversight by: Generic HCO






Labeling

Unit (Optional)



Building (Optional)



Multifamily New Construction Program Website



ENERGY STAR MFNC Requirements Pages

www.energystar.gov/mfnc

ENERGY STAR New Homes & Apartments

- Work with ENERGY STAR ▶
- Program Requirements ▼
 - Single Family Homes ▶
 - Multifamily Buildings** ▼
 - Multifamily New Construction Certification Process
 - Designed to Earn for Multifamily
 - Multifamily New Construction Building Eligibility
 - Multifamily Building Locator
 - Multifamily High Rise Program (New Construction) ▶
 - Manufactured Homes
 - ENERGY STAR NextGen
- Residential Resources ▶
- Build ENERGY STAR NextGen ▶
- Awards & Recognition
- Policy & Archives ▶
- Homebuyer & Renter Resources
- About Us ▶

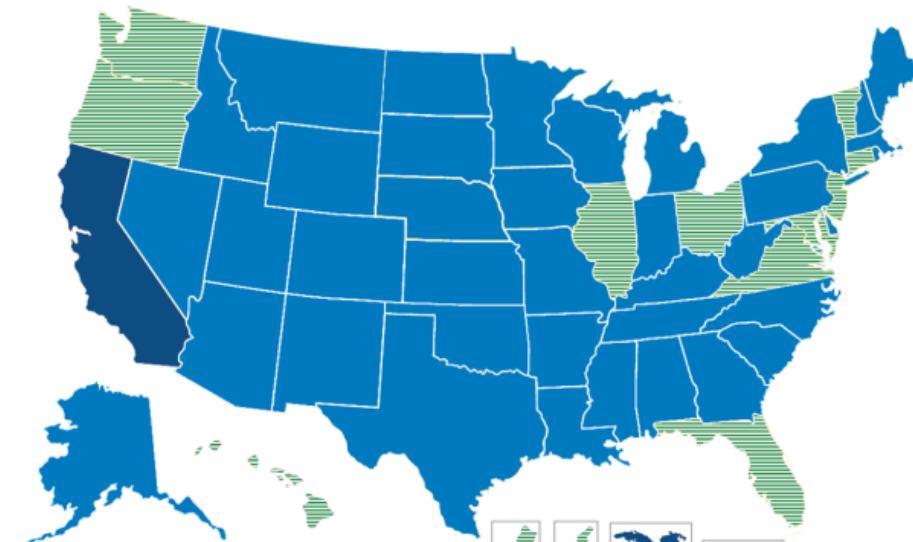
Multifamily Program Requirements

ELIGIBILITY

The **ENERGY STAR Multifamily New Construction (MFNC)** program requirements apply to all multifamily buildings except detached Dwellings (e.g., single-family homes and duplexes) and Townhouses. For details, visit the [Multifamily New Construction Building Eligibility page](#) and see the Program Requirements documents below.

PROGRAM VERSIONS

To determine the applicable MFNC program requirements, including the minimum version and Revision, see the [MFNC Applicable Program Requirements, Versions, and Revisions by Location](#) (PDF, 188 KB). For quick reference, find the minimum Version required for certification in each state on the map below.



CERTIFICATION PROCESS

The certification process offers three compliance paths, each with varying levels of flexibility:

- Prescriptive Path:** Use a prescriptive package of energy efficient measures developed by EPA and certify the building through an EPA-recognized [Multifamily Review Organization \(MRO\)](#). (Not available in California); **OR**
- ERI Path:** Use an approved rating tool software to determine unit-by-unit energy savings based on the ERI target (or savings above Title 24 in California) and certify the building through an [EPA-recognized Home Certification Organization \(HCO\)](#); **OR**
- ASHRAE Path:** Use an energy modeling software approved to determine energy cost savings of the building's energy efficient design compared to ASHRAE (or Title 24 in California) and certify the building through an MRO.

Regardless of which path is chosen, each building must meet certain minimum mandatory requirements, and these are verified in the field by an approved Rater. Visit the [Multifamily New Construction Certification Process](#) page to learn more about multifamily certification options.

PROGRAM REQUIREMENTS

Program documents reflect Revision 05. Read the [Highlights](#) (PDF, 225 KB) here and find details in the [Policy Record](#). Historical documents can be found in the [Archives](#).

National Program Requirements

- [MFNC National Program Requirements Version 1.1](#) (PDF, 458 KB)
- [MFNC National Program Requirements Version 1.2](#) (PDF, 413 KB)
- [MFNC National Program Requirements Version 1.3](#) (PDF, 359 KB)



ENERGY STAR MFNC Requirements Pages

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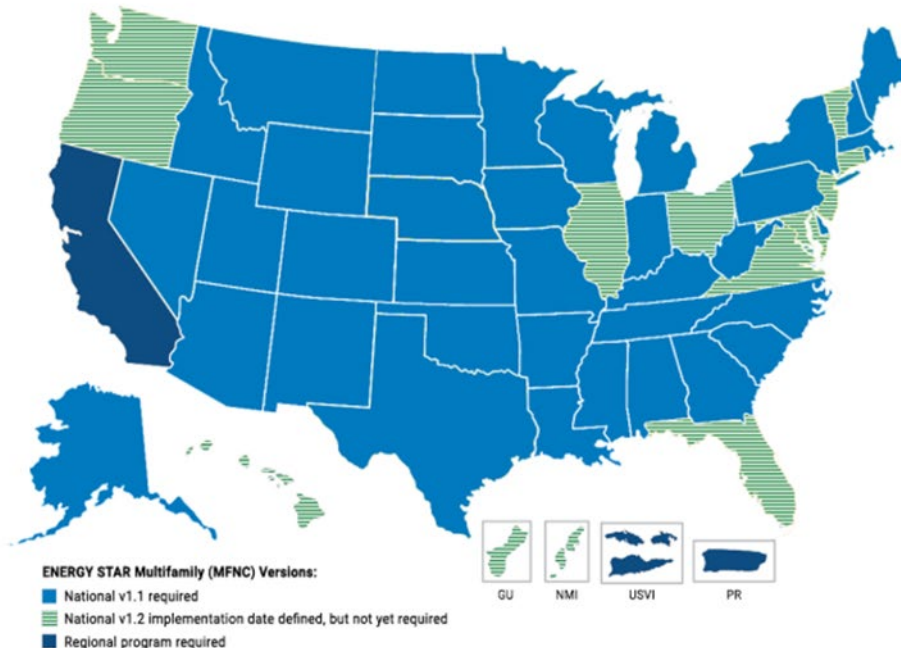
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 - About Us ▶

Multifamily New Construction Certification Process

There are three paths to earning the ENERGY STAR for multifamily new construction projects. Builders/developers may choose:

- 1. ERI Path:** Use an approved rating tool software to determine unit-by-unit energy savings based on the ERI target (or savings above Title 24 in California) and follow a prescriptive package of energy efficient measures developed by EPA in common spaces; OR
- 2. ASHRAE Path:** Use an energy modeling software approved to determine energy cost savings of the building's energy efficient design compared to ASHRAE (or Title 24 in California); OR
- 3. Prescriptive Path:** Use a prescriptive package of energy efficient measures developed by EPA. (Not available in California)

Regardless of which path is chosen, each building must meet certain minimum mandatory requirements, and these are verified in the field by an approved Rater.

The step-by-step graphic below illustrates the process that eligible multifamily buildings follow to earn the ENERGY STAR. Visit the [ENERGY STAR Technical Guidance](#) page to learn more about each of these steps, including [A Rater's Guide to the ENERGY STAR Multifamily New Construction Program Paths](#) (PDF, 234 KB).



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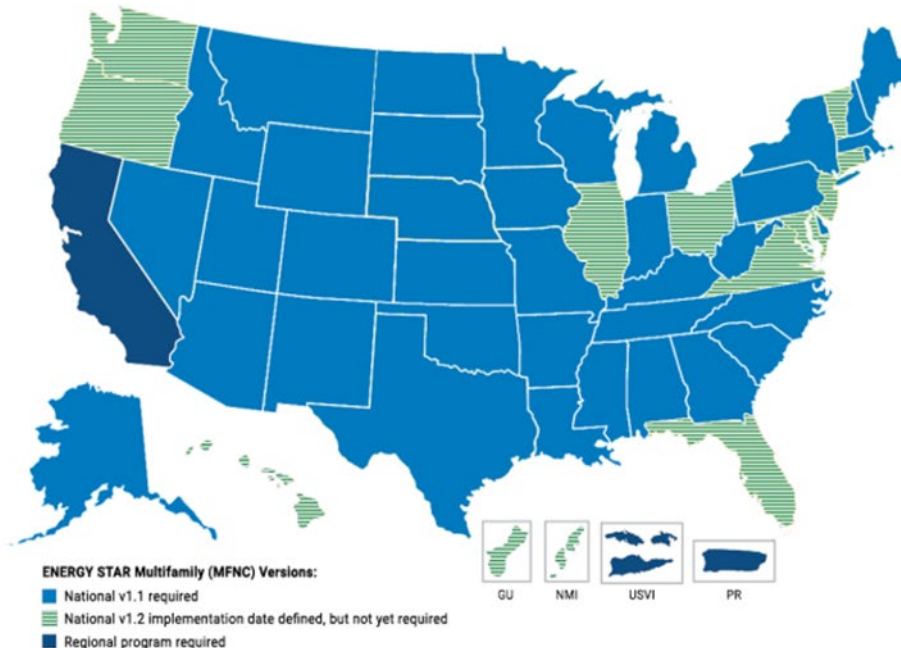
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ENERGY STAR MFNC Requirements Pages

PROGRAM REQUIREMENTS

Program documents reflect Revision 05. Read the [Highlights](#) (PDF, 225 KB) here and find details in the [Policy Record](#). Historical documents can be found in the [Archives](#).

National Program Requirements

- [MFNC National Program Requirements Version 1.1](#) (PDF, 458 KB)
- [MFNC National Program Requirements Version 1.2](#) (PDF, 413 KB)
- [MFNC National Program Requirements Version 1.3](#) (PDF, 359 KB)

National Mandatory Measures

- Applicable to Track A & B:
 - [MFNC Rater Design Review Checklist](#) (PDF, 762 KB)
 - [MFNC Rater Field Checklist](#) (PDF, 1.35 MB)
 - [MFNC HVAC Functional Testing Checklist](#) (PDF, 488 KB)
- Only Applicable to Track A – HVAC Grading:
 - [MFNC HVAC Design Supplement – Dwellings & Units](#) (PDF, 377 KB)
 - [MFNC HVAC Design Supplement – Common Spaces & Central Systems](#) (PDF, 338 KB)
- Only Applicable to Track B – HVAC Testing:
 - [MFNC HVAC Design Report](#) (PDF, 656 KB)

Regional Program Requirements

- [MFNC Oregon and Washington Program Requirements Version 1.2](#) (PDF, 600 KB)
- [MFNC California Program Requirements Version 1.3](#) (PDF, 374 KB)
- [MFNC California Program Requirements Version 1.4](#) (PDF, 317 KB)
- [MFNC California Program Requirements Version 1.5](#) (PDF, 302 KB)
- [MFNC Caribbean Program Requirements, Version 1](#) (PDF, 227 KB)

Regional Mandatory Measures

- [MFNC Caribbean Rater Design Review Checklist](#) (PDF, 399 KB)
- [MFNC Caribbean Rater Field Checklist](#) (PDF, 504 KB)

[Download All](#)

SUPPORTING DOCUMENTS

Verification Files

- [MFNC HVAC Design Report Excel Tool](#) (EXCEL, 183 KB)
- [MFNC HVAC Functional Testing Checklist Excel Tool](#) (EXCEL, 384 KB)
- [Multifamily Workbook](#) (EXCEL, 2.7 MB)
- [Photo Documentation Guidance](#) (PDF, 189 KB)
- **ASHRAE Model** – using 90.1-2016 Appendix G
 - [ASHRAE Standard 90.1 Performance Based Compliance Form](#)
 - [ENERGY STAR MFNC / ZERH Companion Tool](#)
 - [Simulation Guidelines APPG 2016](#) (PDF, 1 MB)

ENERGY STAR MFNC Requirements Pages

www.energystar.gov/mfnc

ENERGY STAR New Homes & Apartments

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Program Requirements

Single Family Homes

Multifamily Buildings

Multifamily New Construction Certification Process

Designed to Earn for Multifamily

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Manufactured Homes

ENERGY STAR NextGen

Residential Resources

Build ENERGY STAR NextGen

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Homebuyer & Renter Resources

About Us

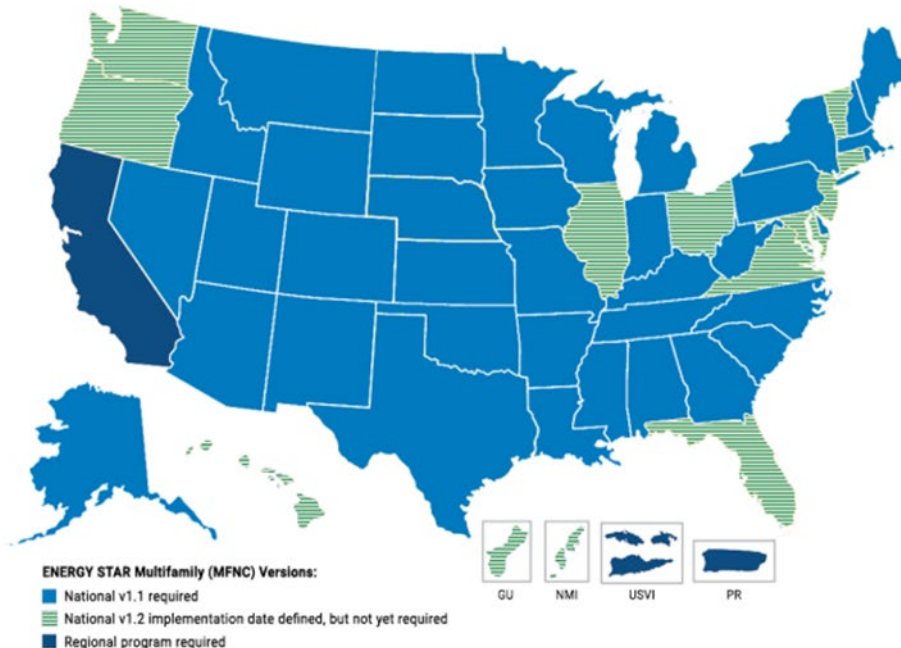
Multifamily Program Requirements

ELIGIBILITY

The **ENERGY STAR Multifamily New Construction (MFNC)** program requirements apply to all multifamily buildings except detached Dwellings (e.g., single-family homes and duplexes) and Townhouses. For details, visit the [Multifamily New Construction Building Eligibility page](#) and see the Program Requirements documents below.

PROGRAM VERSIONS

To determine the applicable MFNC program requirements, including the minimum Version and Revision, see the [MFNC Applicable Program Requirements, Versions, and Revisions by Location](#) (PDF, 188 KB). For quick reference, find the minimum Version required for certification in each state on the map below.



CERTIFICATION PROCESS

The certification process offers three compliance paths, each with varying levels of flexibility:

- Prescriptive Path:** Use a prescriptive package of energy efficient measures developed by EPA and certify the building through an EPA-recognized [Multifamily Review Organization \(MRO\)](#). (Not available in California); **OR**
- ERI Path:** Use an approved rating tool software to determine unit-by-unit energy savings based on the ERI target (or savings above Title 24 in California) and certify the building through an [EPA-recognized Home Certification Organization \(HCO\)](#); **OR**
- ASHRAE Path:** Use an energy modeling software approved to determine energy cost savings of the building's energy efficient design compared to ASHRAE (or Title 24 in California) and certify the building through an MRO.

Regardless of which path is chosen, each building must meet certain minimum mandatory requirements, and these are verified in the field by an approved Rater. Visit the [Multifamily New Construction Certification Process](#) page to learn more about multifamily certification options.

PROGRAM REQUIREMENTS

Program documents reflect Revision 05. Read the [Highlights](#) (PDF, 225 KB) here and find details in the [Policy Record](#). Historical documents can be found in the [Archives](#).

National Program Requirements

- [MFNC National Program Requirements Version 1.1](#) (PDF, 458 KB)
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ENERGY STAR New Homes & Apartments

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Work with ENERGY STAR

Join the Residential New Construction Program

For three decades, the ENERGY STAR certification for new homes and apartments has set a national benchmark for superior energy efficiency in homebuilding. Our program offers a strong foundation of building science principles and third-party inspections by home energy raters.

More than 2,500 builders, developers, and manufactured housing plants are active in the ENERGY STAR program – including most of the nation's 25 largest home builders.



Learn more about the [ENERGY STAR Residential New Construction Program](#).

Who can partner with ENERGY STAR?



Home Builders & Developers



Energy Rating Companies



Utilities / Program Sponsors

Can other organizations also participate?



Other organizations can also work with ENERGY STAR, such as Multifamily Professionals (e.g., Architects and Designers, ASHRAE Path Modelers, HVAC Contractors); Oversight Organizations; and Real Estate Professionals. [See a full list >>](#)

Join Now



Energy Rating Companies

ENERGY STAR New Homes & Apartments

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Energy Rating Companies

The demand for home energy rating services is strong and growing. Energy Rating Companies (ERCs), comprised of trained and certified professionals (e.g., energy Raters, Rating Providers), can [partner with ENERGY STAR](#) to **expand their service offerings** while becoming an **invaluable asset** to their builder clients.

Third party verification is a central component of the ENERGY STAR Residential New Construction programs and gives homebuyers and renters confidence that their new homes are energy efficient. ERCs participating in either ENERGY STAR Certified Single-Family New Homes or ENERGY STAR Multifamily New Construction (MFNC) can increase their revenue by gaining exclusive access to thousands of ENERGY STAR builder and developer partners. ERCs work closely with builders and developers to design homes and multifamily buildings that meet the [program requirements](#) and verify critical construction details during and after construction.

Partnering with ENERGY STAR is an opportunity for ERCs to **expand their service** offerings beyond simply providing energy ratings or individual performance tests (e.g., blower door tests). ERCs can become an invaluable asset to their clients and transition to the role of energy consultants by providing value throughout the construction process.

ERC partners can leverage the ENERGY STAR brand and take advantage of a suite of [sales and marketing resources](#) to help attract and recruit clients. ERC partners also become eligible for national recognition from EPA in the form of [ENERGY STAR Awards](#) if they meet eligibility criteria and demonstrate exemplary leadership in the verification of certified homes and apartments.

ENERGY STAR provides technical support in the form of webinars and resources posted online that can help Energy Rating Companies improve their understanding of building science.

If you have a question about ENERGY STAR requirements that is not easily addressed by ENERGY STAR resources, email energystarhomes@energystar.gov for one-on-one support.

Visit the [Partner Locator](#) to find active ENERGY STAR partners and incentives near you.

Training Requirements

All individuals completing the third-party verification required for ENERGY STAR certification must a) be Certified Raters or Approved Inspectors, as defined by ANSI / RESNET / ICC Standard 301, or an equivalent designation as determined by a [Home Certification Organization \(HCO\)](#) or [Multifamily Review Organization \(MRO\)](#); and, b) have completed an EPA-recognized training class for the ENERGY STAR program they will use to certify homes or apartments, as specified below. Each course includes a completion test with a passing grade of 80% or better. To begin and maintain a partnership with ENERGY STAR, an Energy Rating Company must identify staff who hold one of these designations and have earned a training certificate.

Current training providers include:

- [RESNET-Approved Training Providers](#) (Approved trainings [list](#))
- [Building Science Institute, Ltd. Co.](#)
- [CHEERS](#)

Accredited training providers have access to unique ENERGY STAR training resources through their [My ENERGY STAR Account \(MESA\)](#). Training providers can also reach out to the Residential New Construction team to gain access to these resources.

Organizations that do not maintain these qualifications will not be permitted to certify homes or apartments as ENERGY STAR, and will not have access to program benefits including use of the ENERGY STAR name and marks, listing on the [ENERGY STAR Partner Locator](#), and receiving credit for ENERGY STAR certified homes and apartments.



Energy Rating Companies

Required training by ENERGY STAR program:

- **Single-Family:**
 - ENERGY STAR Certified Homes Version 3 / 3.1 training *or*
 - ENERGY STAR Certified Homes Caribbean Version 3 training
 - For individuals who will primarily be working in Puerto Rico or the U.S. Virgin Islands, it is recommended that they complete training using these materials instead of the ENERGY STAR Certified Homes Version 3 / 3.1 materials.
- **Multifamily:**
 - ENERGY STAR Certified Homes Version 3 / 3.1 training, *and*
 - ENERGY STAR Multifamily New Construction (MFNC) Version 1 training (to certify MFNC projects on or after January 1, 2020)
 - [View the current list of MFNC trained raters.](#)

All of the above-listed trainings present the technical content of each program's Rater Design Review Checklist and Rater Field Checklist. The training takes the trainee through each section of the checklist, explaining how to verify each requirement and interpret any corresponding footnotes. Upon completing the training, raters will have a solid understanding of how to verify and complete the checklists they are responsible for in the ENERGY STAR certification process.

New Energy Rating Companies must submit their raters' ENERGY STAR training certificates to EPA as part of their [Online Partnership Agreement](#). Current ENERGY STAR partners who wish to submit new/additional training certificates may email them directly to energystarhomes@energystar.gov. Alternatively, Training Providers may submit batches of certificates on behalf of Raters after holding a training using the above email address. However, it is the responsibility of each Energy Rating Company and, ultimately, the [Home Certification Organization](#) under which they operate, to ensure raters have met all training requirements and maintain documentation of completed training.



Energy Rating Companies

Required training by ENERGY STAR program:

- **Single-Family:**
 - ENERGY STAR Certified Homes Version 3 / 3.1 training *or*
 - ENERGY STAR Certified Homes Caribbean Version 3 training
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ENERGY STAR New Homes & Apartments

- Work with ENERGY STAR
- Builders & Developers
- Energy Rating Companies
- Multifamily New Construction Trained Raters**
- Utilities & Other Program Sponsors
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- Homebuyer & Renter Resources
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ENERGY STAR Multifamily New Construction Trained Raters

The Raters below have met the training requirements of the [ENERGY STAR Multifamily New Construction program](#). This list may not be comprehensive. In addition to this training requirement, note that it is required for a Rater to be credentialed by a [Home Certification Organization \(HCO\)](#) or meet the credentialing requirements of a [Multifamily Review Organization \(MRO\)](#), which may be verified with the HCO or MRO. Also, it is the responsibility of each Energy Rating Company, and ultimately the HCO or MRO under which they operate, to ensure Raters have met all training requirements and maintain documentation of completed training.

[Export as CSV](#)

First Previous Next Last

(Showing 1-20 records out of 335)

Company Name ↑	Contact Name	City	State
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FT Agent Directory

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Multifamily Review Organizations (MROs)

Manufactured Homes Quality Assurance Providers (QAPs)

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Other Participants

There are opportunities for a number of different types of organizations to support the ENERGY STAR Residential New Construction program and the construction of energy-efficient new homes and apartments. Learn more about how different types of organizations can participate with ENERGY STAR, including their eligibility to partner with the program.

Oversight Organizations	Multifamily Professionals	Real Estate Industry Professionals	Other Stakeholders
Home Certification Organizations (HCOs)	ASHRAE Path Energy Modelers	Home Appraisers	Architects & Designers
Multifamily Review Organizations (MROs)	Functional Testing Agents (FTAs)	Housing Agencies	Home Builders Associations
Manufactured Homes Quality Assurance Providers (QAPs)		Lenders	HVAC Contractors
		Manufactured Homes Retailers	
		Real Estate Professionals	



Architects & Designers

Residential architects and designers can help their builder clients design home plans that meet the rigorous energy efficiency requirements of the ENERGY STAR Residential New Construction program. By designing energy efficiency into the front-end of a project, a team can ensure that critical building science details and efficiency features are included that offer direct resident benefits, including energy-savings, comfort, and durability.

Architects and designers can better promote their multifamily projects by using the [Designed to Earn the ENERGY STAR mark](#).



ASHRAE Path Energy Modelers

The ENERGY STAR Multifamily New Construction program offers a certification path which requires whole-building energy models that demonstrate energy cost savings above ASHRAE Standard 90.1. Energy modelers tasked with developing these building models are required to complete an [online orientation](#), which will provide an overview of the Multifamily New Construction program and its [requirements](#).

After completing the online orientation, email energystarhomes@energystar.gov to share contact information with EPA and include "ASHRAE Modeling Orientation" in the subject line. Recognized Energy Modelers are added to the [ASHRAE Path Energy Modeler Directory](#).



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Multifamily Review Organizations (MROs)

Manufactured Homes Quality Assurance Providers (QAPs)

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ASHRAE Path Energy Modeler Directory

After completing the orientation and sharing contact information with EPA, recognized ASHRAE Path Energy Modelers are added to the directory below. Learn about [ASHRAE Path Energy Modelers](#) on our [Other Participants](#) page to get started.

First

Previous

Next

Last

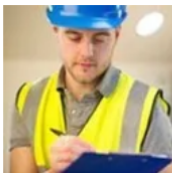
↓ [Export as CSV](#)

(Showing 1-20 records out of 184)

Contact Name	Organization Name	Email	Phone



Functional Testing Agents



Functional Testing Agents (FTAs)

Professionals who hold EPA-recognized credentials can complete parts of the [ENERGY STAR Multifamily New Construction HVAC Functional Testing Checklist](#) (PDF, 495 KB).

Functional Testing Agents must be [a contractor credentialed by an HVAC Quality Installer Training and Oversight organization \(H-QUITO\)](#) or must be one of the following:

- **Licensed Professional Mechanical Engineer**
- **Representative of the Original Equipment Manufacturer (OEM)**
- **AABC Commissioning Group (ACG)**
 - Certified Commissioning Authority (CxA)
 - Certified Commissioning Technician (CxT)
- **American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE)**
 - Building Commissioning Professional (BCxP, formerly the Commissioning Process Management Professional (CPMP))
- **Association of Energy Engineers (AEE)**
 - Certified Building Commissioning Professional (CBCP)
 - Existing Building Commissioning Professional (CCP)
- **Building Commissioning Certification Board**
 - Certified Commissioning Professional

- **National Comfort Institute (NCI)**

For Sections 1-5:

- Refrigerant Side Performance; **AND**
- Any Air-Side Certification:
 - Certified Duct System Optimization Specialist
 - Certified Residential System Performance Specialist
 - Certified Residential Air Balancer
 - Certified Commercial System Performance Specialist
 - Certified Commercial Air Balancer

For Sections 1-8:

- Refrigerant Side Performance; **AND**
- National Balancing Council Large Commercial Balancing Certification

- **National Environmental Balancing Bureau (NEBB)**

- Building System Commissioning Certified Professional (BSC CxCP)
- Building System Commissioning Certified Technician (BSC CxCT)
- Commissioning Process Professional (CxPP)
- *For Sections 3-4*
 - Testing, Adjusting & Balancing Certified Professional (TAB CP)

- **University of Wisconsin (UW)**

- Qualified Commissioning Process Provider (QCxP)
- Commissioning Process Authority Professional (CxAP)
- Commissioning Process Manager (CxM)
- Commissioning Process Technical Service Provider (CxTS)
- Green Commissioning Process Provider (GCxP)

Professionals seeking to provide Functional Testing services in support of the ENERGY STAR Multifamily New Construction Program must complete an [online orientation](#), which will provide an overview of the program and its requirements. Note: online orientation is not required for [credentialed HVAC contractors](#).

After completing the online orientation, email energystarhomes@energystar.gov to share contact information and a copy of your credential certificate or documentation with EPA. Include "Functional Testing Orientation" in the subject line. Recognized Functional Testing Agents are added to the [Functional Testing Agent Directory](#).



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§ 45L Tax Credit ▶

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Residential Resources

Residential New Construction Professionals, browse the content on this page for expert guidance around building and marketing energy-efficient new homes and apartments.

Not an ENERGY STAR partner yet? Click below to get started!

[Join Today](#)

Where can I find up-to-date technical guidance and the latest incentives?

Use the resources below to continue your journey with ENERGY STAR.



Expert Webinars

Sign up for free, informative webinars, or get recordings of past trainings.

[Learn More](#)



Technical Guidance

Explore the technical details of building ENERGY STAR homes and apartments.

[Learn More](#)



Explore Incentives

Browse a variety of incentives for building ENERGY STAR certified homes and apartments.

[Learn More](#)



Tax Credits for Builders

Explore tax credits for energy-efficient homes.

[Learn More](#)

Where can I find marketing materials?



MY ENERGY STAR ACCOUNT

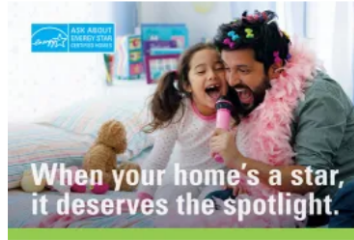
View and manage information about your organization's ENERGY STAR participation and contacts; access all of your password-protected tools or resources.



Marketing Materials

Educate Homebuyers and Set Your Company Apart

As an ENERGY STAR partner, you have access to free, informative, and eye-catching marketing materials to display in model homes and sales centers, and on digital platforms such as websites and social media. These marketing materials include:



Brochures & Flyers

Use these brochures and factsheets to convey the importance of your ENERGY STAR single-family, multifamily, and manufactured homes in a clear, concise, and compelling way.

SINGLE-FAMILY NEW HOMES FLYERS & BROCHURES ▶

MULTIFAMILY NEW CONSTRUCTION FLYERS & BROCHURES ▶

MANUFACTURED NEW HOMES FLYER ▶

Digital Advertisements

Use these ads to raise awareness on your company's website and other web-based platforms.

CAMPAIGN A: YOUR HOME'S A STAR ▶

CAMPAIGN B: HOME IS WHERE THE COMFORT IS ▶

CAMPAIGN C: TWO MILLION REASONS TO CELEBRATE ▶

CAMPAIGN D: THE FUTURE STARTS HERE ▶

Logos

As an ENERGY STAR partner, you can access a suite of different ENERGY STAR logos (also known as "marks") in your [My ENERGY STAR Account](#) (MESA) under Tools > [Logo Downloads](#). Each logo is designed for a specific purpose, so when developing any new materials that use one of the ENERGY STAR logos, be sure to comply with the [ENERGY STAR Brand Book](#). Note that depending on your partnership type and program commitments, you may have access to different logos.

Organizations must meet the Terms and Commitments of their Partnership Agreement with EPA's ENERGY STAR program to use any logos. If you have questions about your partnership status, check EPA's [ENERGY STAR Partner List](#) or contact us at energystarhomes@energystar.gov. Questions about the ENERGY STAR Brand Book can be directed to logo@energystar.gov.

Plaques & Signage

Buildings that earn the ENERGY STAR through the EPA's ENERGY STAR Multifamily New Construction Program can promote their energy efficiency commitment to residents, employees, and the community using a plaque. Access plaque templates via the password-protected partner resources site, [My ENERGY STAR Account](#) (MESA).

Postcards

These eye-catching ENERGY STAR postcards are a quick, easy, and effective way to communicate with potential customers.

CAMPAIGN A: YOUR HOME'S A STAR ▶

CAMPAIGN B: HOME IS WHERE THE COMFORT IS ▶

CAMPAIGN C: TWO MILLION REASONS TO CELEBRATE ▶

CAMPAIGN D: THE FUTURE STARTS HERE ▶

Building Plaque Order Form



Multifamily New Construction Plaque Details & Order Instructions

ENERGY STAR is the nation's premier symbol of energy efficiency, recognized by more than 90 percent of American households. Partners who earn the ENERGY STAR certification through the ENERGY STAR Multifamily New Construction (MFNC) Program can display a building plaque to represent their commitment to energy efficiency.

About

The cyan blue metal plaque is made from a durable, lightweight, and environmentally friendly recycled aluminum material. The back has four predrilled holes for post screws to mount to an interior or exterior wall. Hanging hardware, including threaded screws and instructions, is included.



Example 2024 MFNC Plaque.

Ordering

Complete the form on page 2 and email it to Branden Beyer of Medalcraft Mint, Inc. (bbeyer@medalcraft.com). Then call Branden at (920) 593-1524 with your credit card information.

**Note: Orders usually take 6-8 weeks to be fulfilled. A longer period may be required for older certification years. Please contact Branden for more information.*

Pricing

Total pricing consists of the ENERGY STAR MFNC Building Plaque, sales tax, and shipping fee.

Item	Description	Cost
MFNC Building Plaque	Including shipping & handling fees	\$450
	Varies by state. Please calculate your state and local	

ENERGY STAR New Homes & Apartments

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Designed to Earn for Multifamily

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Multifamily Building Locator

Looking for an ENERGY STAR certified apartment or condo? Browse our List of ENERGY STAR Certified Multifamily Buildings to find units near you that deliver better quality, comfort, and value.

Building/Development Name or Address:

Builder/Developer Name:

City:

State:

Year Certified:

Submit

i Showing All Results.

[Modify Search](#)

[Export as CSV](#)

[First](#) [Previous](#) [Next](#) [Last](#)

(Showing 1-20 records out of 730)

Building/Development Name & Address ↑	City	State	Builder/Developer
100 Park Plaza Drive 100 Park Place Drive	Secaucus	NJ	Hartz Mountain Industries, Inc.
101 Q Street 101 Q St	Washington	DC	Sustainable Design Consulting, LLC
1070 Anderson Avenue	Bronx	NY	New Destiny Housing Corporation
1133 Manhattan Ave 1133 Manhattan Avenue	Brooklyn	NY	The Domain Companies
1212 MLK Apartments 1212 Martin Luther King Blvd.	Bronx	NY	Dunn Development
1490 Dumont Avenue	Brooklyn	NY	Hudson Companies
1561 Walton Ave	Bronx	NY	Settlement Housing Fund, Inc.
17 Mississippi Ave 17 Mississippi Ave SE	Washington	DC	Hamel Builders, Inc.
17-21 W 118th Street 17-21 W 118th St	New York	NY	Women In Need, Inc.



Market Your Building

ENERGY STAR Multifamily High Rise Building Profile

Building Developer:

ABC Development Corporation

Licensed Professional:

XYZ Architectural Designs

Year Certified:

2014

Construction Type:

New Construction

Sector:

Market Rate

The Main Street Building

123 Main Street
Washington, DC 20005

[\[Web Address\]](#)



Technologies Used:

-Steel frame walls with R-13 fiberglass and R-5 rigid insulation
-15 SEER AC
-Low-flow fixtures, ENERGY STAR appliances and CFLs

Building Description:

EPA has created this fillable PDF template that also allows you to upload a picture of the building and developer company logo. Building Profiles are an opportunity to showcase the unique energy efficiency features of your building to consumers and prospective clients alike. Building Profiles are linked from www.energystar.gov/mfhr and will be posted to the ENERGY STAR MFHR Consumer Page www.energystar.gov/certifiedapartments.

A Building Profile includes general information and a description of the building, specific energy efficiency measures, and a photo of the building and the developer company logo. Developers can add a link to either their website or building website if they comply with the ENERGY STAR Web Linking Policy.

BUILDING PROFILE HIGHLIGHT

Interested in learning more about the energy saving features in ENERGY STAR certified apartments and condos? Use the gray arrows below to search the profiles of ENERGY STAR certified multifamily buildings. Interested in having your multifamily building highlighted? Instructions on how to submit a Multifamily Building Profile are available in the [Building Profile Kit](#) (PDF, 901KB).

[THE BEDFORD](#) (PDF, 413 KB)

[MILAN & MAIN CITY CENTER](#) (PDF, 111 KB)

[201 ELLICOTT](#) (PDF, 538 KB)

[SKYHOUSE BUCKHEAD](#) (PDF, 57 KB)

[CATHERINE STREET APARTMENTS](#) (PDF, 140 KB)

[RITTENBERG MANOR](#) (PDF, 93 KB)

[188 WARBURTON AT THE RIDGEWAY](#) (PDF, 140 KB)

[RIVERS EDGE APARTMENTS](#) (PDF, 106 KB)

[GREENPOINT LANDING G2](#) (PDF, 785 KB)

[STEVE O'NEIL APARTMENTS](#) (PDF, 78 KB)

[UPPER FALLS SQUARE BUILDING A](#) (PDF, 141 KB)

[ELEMENT UPTOWN](#) (PDF, 95 KB)

[THE PARKLINE](#) (PDF, 182 KB)

[CAMPUS WEST](#) (PDF, 97 KB)

[NEW COURTLAND APARTMENTS AT ALLEGHENY](#) (PDF, 522 KB)

[BROADWAY GENESIS](#) (PDF, 88 KB)



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Awards & Recognition

Honoring Achievements in Building, Rating, and Sponsoring ENERGY STAR

Partner of the Year Awards



The ENERGY STAR Partner of Year Awards recognize organizations that have made outstanding contributions to protecting the environment through the ENERGY STAR program. Builders, developers, energy rating companies, utilities, and other program sponsors are eligible to apply for this prestigious national award.

Learn more about the [ENERGY STAR Partner of the Year Award](#).

Residential New Construction Market Leader Awards



See a larger version of the plaque [here](#).

The ENERGY STAR Market Leader Awards (MLAs) recognize builders, developers, and energy rating companies that have built or verified at least 50 ENERGY STAR certified homes in the prior year, as well as utilities and other sponsors implementing energy-efficiency programs based on ENERGY STAR program requirements. For builder and developer partners to be eligible for the MLAs, they must also have committed to building 100% of their homes to the ENERGY STAR certification (see below). There is no award application; eligible partners are automatically recognized.

[View a list of current recipients.](#)



Residential Resources

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Residential Resources

Residential New Construction Professionals, browse the content on this page for expert guidance around building and marketing energy-efficient new homes and apartments.

Not an ENERGY STAR partner yet? Click below to get started!

[Join Today](#)

Where can I find up-to-date technical guidance and the latest incentives?

Use the resources below to continue your journey with ENERGY STAR.



Expert Webinars

Sign up for free, informative webinars, or get recordings of past trainings.

[Learn More](#)



Technical Guidance

Explore the technical details of building ENERGY STAR homes and apartments.

[Learn More](#)



Explore Incentives

Browse a variety of incentives for building ENERGY STAR certified homes and apartments.

[Learn More](#)



Tax Credits for Builders

Explore tax credits for energy-efficient homes.

[Learn More](#)

Where can I find marketing materials?



MY ENERGY STAR ACCOUNT

View and manage information about your organization's ENERGY STAR participation and contacts; access all of your password-protected tools or resources.



Technical Bulletins

ENERGY STAR New Homes & Apartments

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Technical Guidance

Explore the technical details of building ENERGY STAR homes and apartments. Fact sheets provide at-a-glance orientation. Supplemental guidance dives deep into strategies, alternatives, and exemptions referenced in the [Program Requirements](#). And technical bulletins offer actionable tips on topical matters.

- [Fact Sheets](#)
- [Rater Training Videos](#)
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Fact Sheets

- Introduction to the ENERGY STAR New Construction Programs
 - [Introduction to the ENERGY STAR Single-Family New Homes \(SFNH\) program](#) (PDF, 103 KB)
 - [Introduction to the ENERGY STAR Multifamily New Construction \(MFNC\) program](#) (PDF, 132 KB)
- HVAC Grading Fact Sheets
 - [SFNH HVAC Grading for Builders](#) (PDF, 273 KB)
 - [SFNH HVAC Grading for Raters](#) (PDF, 260 KB)
 - [SFNH HVAC Grading for HVAC Contractors](#) (PDF, 296 KB)
 - [SFNH HVAC Grading for HVAC Designers](#) (PDF, 282 KB)
 - [MFNC HVAC Grading for Builders and Developers](#) (PDF, 327 KB)
 - [MFNC HVAC Grading for Raters](#) (PDF, 301 KB)
 - [MFNC HVAC Grading for HVAC Contractors](#) (PDF, 302 KB)
 - [MFNC HVAC Grading for HVAC Designers](#) (PDF, 289 KB)

Technical Bulletins

Technical Bulletins

- [How to Use Microwaves to Meet Kitchen Exhaust Requirements, August 20, 2024](#) (PDF, 507 KB)
- [Pre-Drywall Inspection Always Required Technical Bulletin, May 1, 2023](#) (PDF, 636 KB)
- [Track A - HVAC Grading by Rater Now Available for Use with ENERGY STAR Multifamily New Construction Program! Technical Bulletin, October 5, 2021](#) (PDF, 1.2 MB)
- [Track A - HVAC Grading Now Available for Use! Technical Bulletin, October 5, 2021](#) (PDF, 887 KB)
- [Achieving Grade-I Insulation in Fire-Rated Roofs Technical Bulletin, September 9, 2021](#) (PDF, 820 KB)
- [A Rater's Guide to the ENERGY STAR Multifamily New Construction Program Paths Technical Bulletin, December 16, 2020](#) (PDF, 360 KB)
- [How to Get Your ENERGY STAR Multifamily New Construction Project Team Ready Technical Bulletin, August 12, 2020](#) (PDF, 360 KB)

[Read more](#) ▼

Technical Bulletins

ENERGY STAR Multifamily New Construction Certification Process for Raters			
	ERI	ASHRAE	Prescriptive
Getting Started	Confirm that your Developer/Builder and your Energy Rating Company (ERC) have signed a partnership agreement with EPA by checking the ENERGY STAR Partner List Confirm that the Rater for the project (1) holds approved credentials (e.g., Certified Rater, Approved Inspector), (2) has completed required ESMFNC training and (3) (optionally) is listed on the MFNC Trained Raters list Confirm that the Functional Testing Agent has or will complete online orientation and confirm if, as the Rater, you will complete any aspects of the Functional Testing Checklist (i.e., Section 5 or by using HVAC Grading) Optional: Hold kick-off meeting and/or provide program documents to design team Note: No ENERGY STAR project application is required to enroll in the MFNC program!		
	Confirm Energy Rating Company is engaged with Home Certification Organization (HCO) and aware of quality assurance requirements	Engage Multifamily Review Organization (MRO) Confirm that the energy modeler has or will complete the online orientation	Engage Multifamily Review Organization (MRO)
Design	Request HVAC Design Report from HVAC designer or MEP Complete Rater Design Review Checklist (PDF OR within the Multifamily Workbook) Optional: Review construction drawings to confirm design complies with all program requirements as listed in the 4 other key program documents (Rater Field, HVAC Design, HVAC Functional Testing & Water Management) Strongly recommended: Submit proposed design documentation to oversight organization for review		
	Complete preliminary energy modeling (dwelling units) Optional: Complete MF Workbook (with Design components completed)	Complete preliminary energy modeling (building) Complete MF Workbook (with Design components completed)	(No modeling required) Complete MF Workbook (with Design components completed)
Build	Verify all items on Rater Field Checklist (via inspections and diagnostic tests) Collect HVAC Functional Testing Checklist, completing Section 5 if applicable		
	Optional: Update MF Workbook	Update MF Workbook	Update MF Workbook
Post Construction	Complete final energy model to reflect as-built conditions for all dwelling units Submit each dwelling unit's energy model to HCO	Complete final energy model to reflect as-built conditions Submit As-Built Submittal (ABS) to MRO	(No modeling required) Submit As-Built Submittal (ABS) to MRO
	Save copies of all documents per oversight organization requirements Send ENERGY STAR dwelling unit labels (and building certificates, if requested) to Developer/Builder		
Marketing & Labeling	Coordinate with HCO or Rating Provider to report certified units to EPA		
	No action required. MRO reports certified projects to EPA	No action required. MRO reports certified projects to EPA	No action required. MRO reports certified projects to EPA
Quality Assurance	Follow HCO protocol for file/field quality assurance reviews		
	[100% of units by Rater file-reviewed, 1% of units field-reviewed, including sample of common space in building]	[100% file review, 1% of all projects field-reviewed; based on MRO's volume, not by Rater]	[100% file review, 1% of all projects field-reviewed; based on MRO's volume, not by Rater]



Technical Bulletin: How to Get Your ENERGY STAR Multifamily New Construction Project Team Ready

August 12, 2020

The transition to EPA's ENERGY STAR Multifamily New Construction (MFNC) program is fast approaching. Is your project team ready?

Key participants for the Multifamily New Construction program include builders / developers, raters, functional testing agents, and ASHRAE path energy modelers. The ENERGY STAR Multifamily team created the guide below to highlight key steps to complete before starting an MFNC project.

- [Builders / Developers](#)
- [Raters](#)
- [Functional Testing Agents](#)
- [ASHRAE Path Energy Modelers](#)

Builders / Developers

Builders and developers work with [ENERGY STAR Rater partners](#) to construct ENERGY STAR certified multifamily buildings that meet EPA requirements for improved comfort, energy efficiency, and durability.



To identify an ENERGY STAR Rater near you who has trained in the specifics of MFNC, visit the [Energy Rating Companies](#) page to download a [list of MFNC trained raters](#).

While the Rater is responsible for verifying many [program requirements](#), it is the responsibility of the builder/developer to review the [National Water Management System Requirements](#) and ensure that each multifamily building is designed and constructed to meet those requirements.

Partnership: Multifamily builders and/or developers must sign an [ENERGY STAR Partnership Agreement](#) with EPA acknowledging their roles and responsibilities as a partner and documenting their commitment to meet the MFNC Program Requirements.

Credentials/Prerequisites: None.

Training: [Builder / Developer Orientation Video](#) is viewed as part of the Online Partnership Agreement above.

Directory: [ENERGY STAR Partner Locator](#)

Visit the [Builders & Developers](#) page and the [MFNC Certification Process](#) page to learn more.



Rater Training Videos

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Rater Training Videos

- [Completing Section 5 of the ENERGY STAR MFNC HVAC Functional Testing Checklist](#) - This video provides a review of Section 5 of the ENERGY STAR Multifamily New Construction HVAC Functional Testing Checklist (Rev. 04), which covers the installation and functional testing of indoor or terminal units for heating and cooling equipment.

ENERGY STAR Recorded Webinars

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Past Webinars

The slide decks from previous ENERGY STAR webinars are below. If available, links to webinars uploaded to YouTube are provided; otherwise, contact energystarhomes@energystar.gov if you are interested in receiving the recorded presentation related to a specific slide deck.

[Proposed National Program Requirements: Single-Family New Homes v3.3 and Multifamily New Construction v1.3](#) (PDF, 1.29 MB) (10/24/2024)

In response to the 2024 International Energy Conservation Code, the EPA is proposing new national versions of the ENERGY STAR Residential New Construction Program Requirements: Single-Family New Homes (SFNH) National Version 3.3 and Multifamily New Construction (MFNC) National Version 1.3.

To learn more, please join the ENERGY STAR Residential New Construction team for a webinar that will introduce the proposed new versions, explain the process and timeline for providing stakeholder feedback, and answer questions.

The webinar can be viewed on YouTube at: [National Program Requirements](#).

[Proposed California Program Requirements \(PDF, 553.03 KB\)](#) (10/10/2024)

In response to California's 2025 Building Energy Efficiency Standards, the EPA is proposing new versions of the ENERGY STAR Residential New Construction Program Requirements for California: Single-Family New Homes (SFNH) Version 3.5 and Multifamily New Construction (MFNC) Version 1.5.

To learn more, please join the ENERGY STAR Residential New Construction team for a webinar that will introduce the proposed new versions, explain the process and timeline for providing stakeholder feedback, and answer questions.

The webinar can be viewed on YouTube at: [Proposed California Program Requirements](#).

[Introduction to ENERGY STAR Multifamily New Construction \(PDF, 13.12 MB\)](#) (8/13/2024)

The ENERGY STAR Multifamily New Construction (MFNC) program is designed to reduce energy usage while improving comfort, indoor air quality, and durability. This webinar will cover:

- a summary of key elements in each certified building,
- the certification process,
- program documents,
- key resources on the ENERGY STAR website,
- building eligibility,
- roles and expectations of key participants,
- available federal tax credits, and h) how to get started.

Catch our other sessions!

Tips and Tricks for Meeting the Latest ENERGY STAR Program Requirements – and Beyond

Tuesday 1:00 PM at Joshua Tree – Dean Gamble, Rebecca Hudson

ENERGY STAR: Multifamily New Construction (MFNC) Revision 5

Tuesday 2:00 PM at Joshua Tree – Rebecca Hudson, Gayathri Vijayakumar (SWA)

Level up with ENERGY STAR NextGen: Program Updates and Rater Training

Tuesday 4:00 PM at Joshua Tree – Zak Shadid, Dylan Tindall (the BER)

Thank you!

www.energystar.gov/mfnc
energystarhomes@energystar.gov

