

Level Up with ENERGY STAR NextGen Rater Training & Program Updates

2025 RESNET Conference

Speakers: Dylan Tindall and Zak Shadid

January 2025



Today's Speakers



Zak Shadid

Partner Services,
ENERGY STAR Residential
Branch, EPA



Dylan Tindal

Technical Training Lead,
The BER

Agenda

1. Program Update
2. Rater Training

Program Update

Why ENERGY STAR NextGen?

To reduce emissions in residential construction, think beyond energy efficiency to include:

- Highly efficient construction
- Advanced technologies
- Connected equipment



NextGen Energy Efficiency Specifications

Achievable, market-ready requirements



Energy use
Highly energy-efficient construction



Connected heat pump
Multi-stage ENERGY STAR certified



Connected heat pump water heater
ENERGY STAR certified



Electric cooking
to improve indoor air quality



Electric vehicle
charging capability

ENERGY STAR NextGen Early Participation



- ✓ ENERGY STAR NextGen-certified homes: **63**
- ✓ Rating companies: **12**
- ✓ Builders: **20**
- ✓ Utilities: **19**
- ✓ Average ERI score: **23**

Rater Training

Background

- Does NOT replace core ENERGY STAR Certification
 - Completed in ADDITION to core program
 - Completely optional



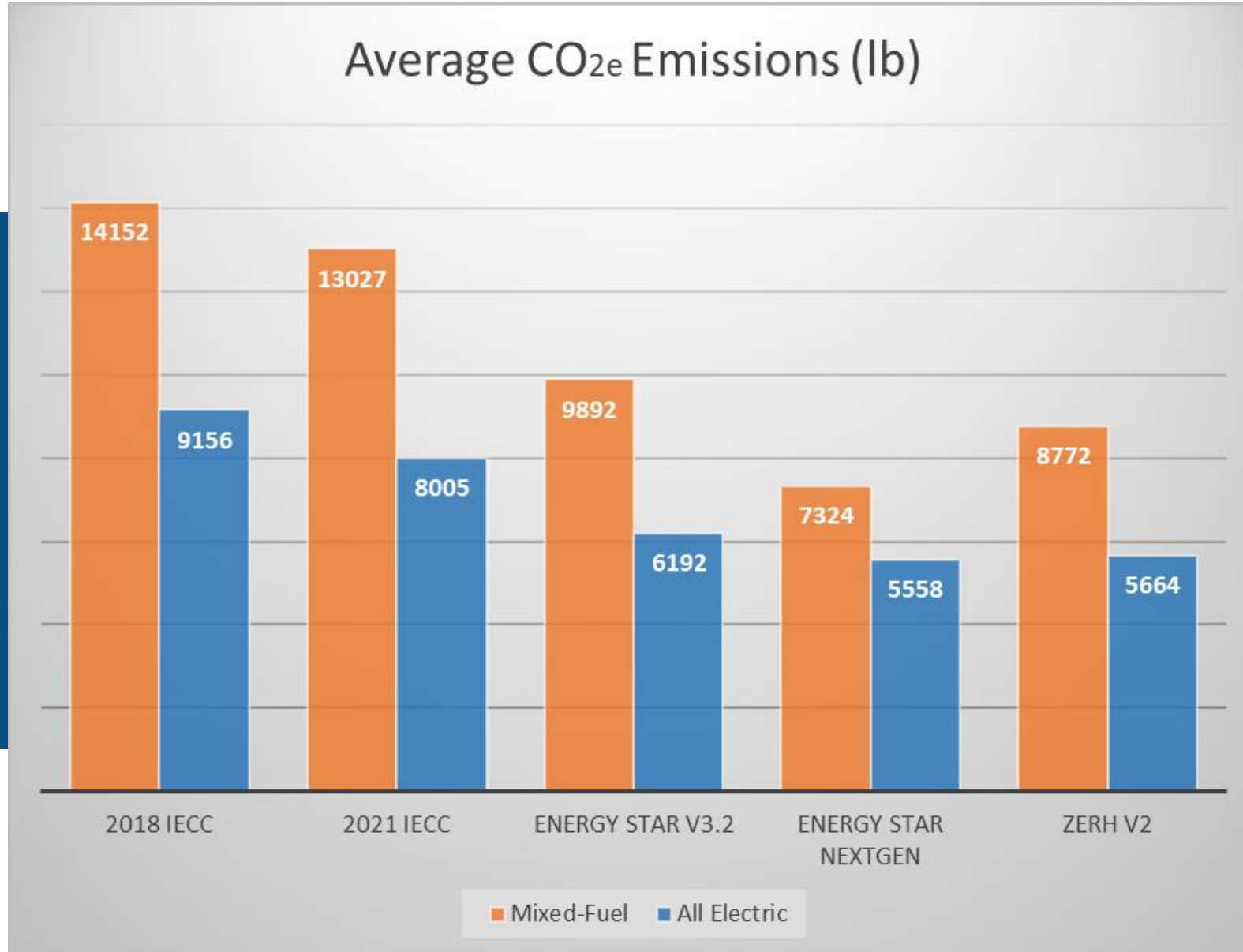
CORE PROGRAM



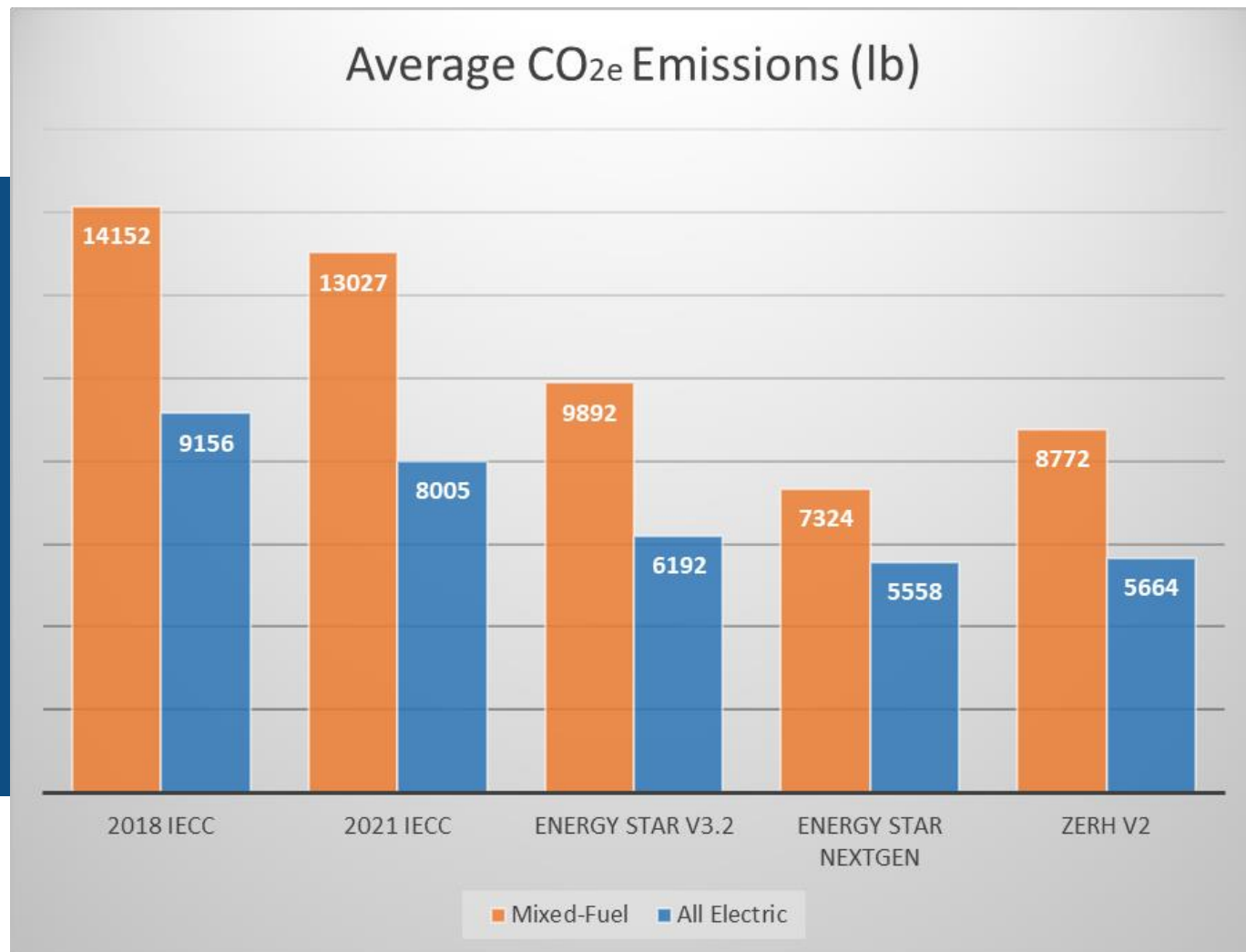
NEXT GEN PROGRAM



National Average CO₂e Emissions Impact

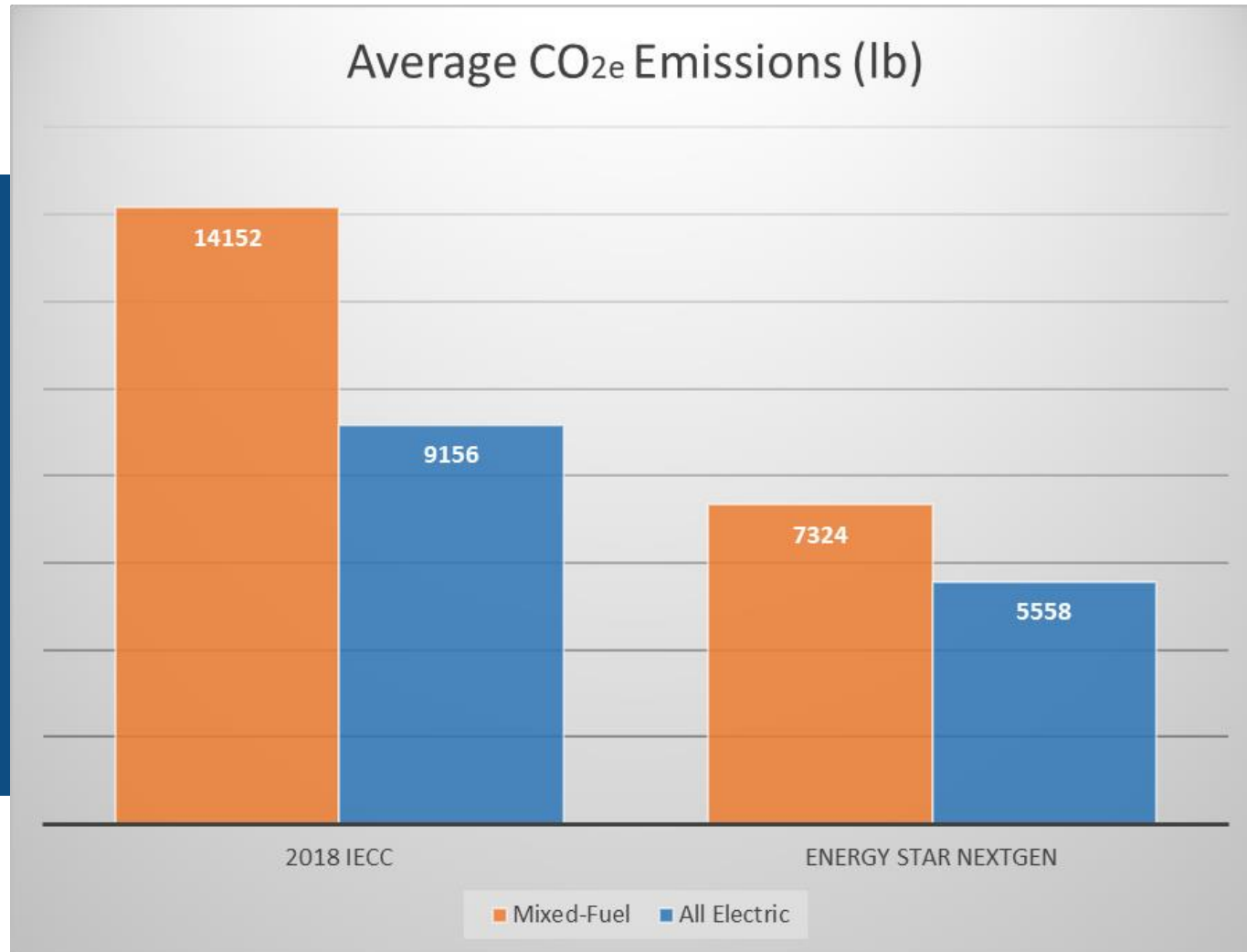


National Average CO₂e Emissions Impact



Replacing gas equipment with heat pumps reduces emissions by at least 35%

National Average CO₂e Emissions Impact

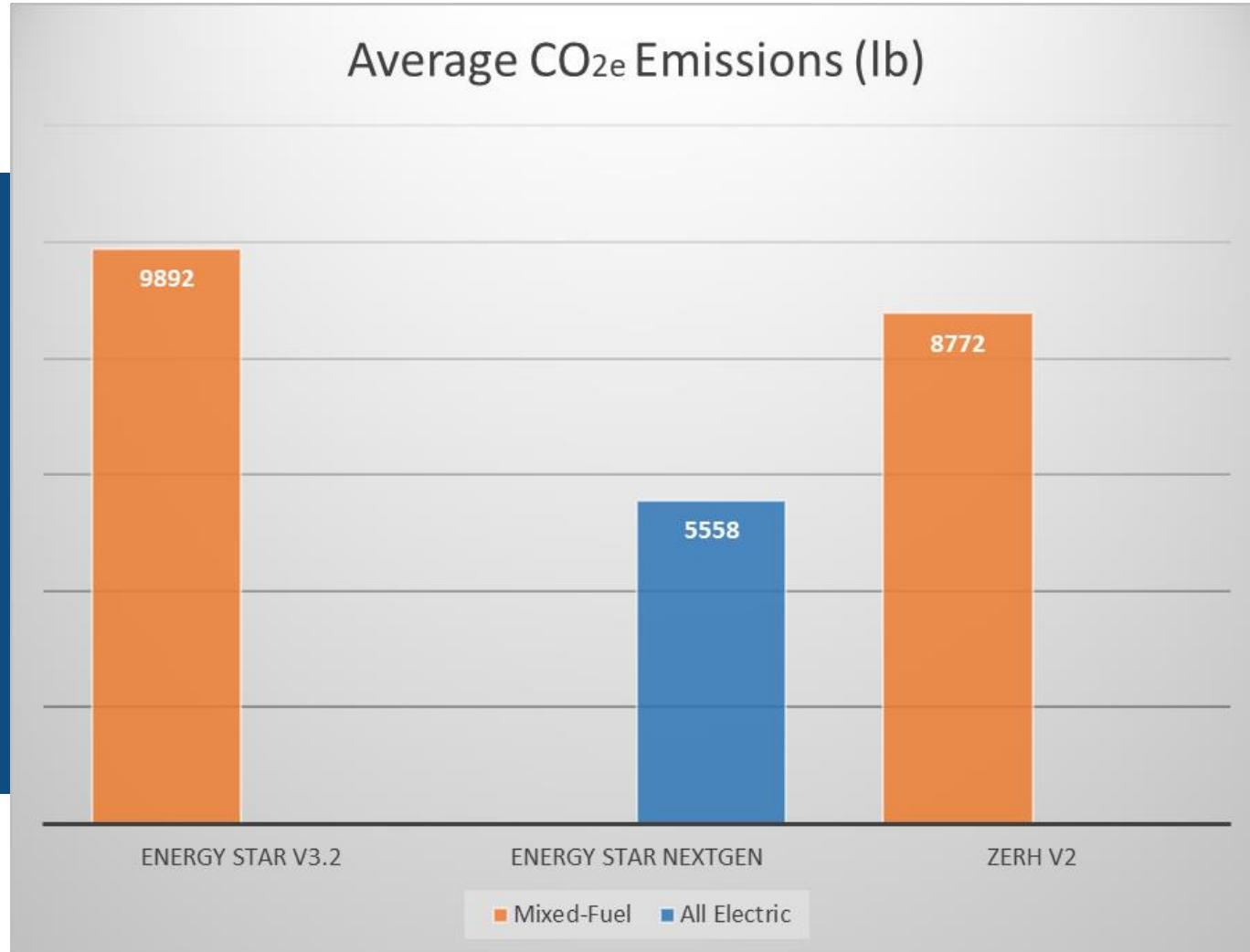


Mixed-fuel home reduced emissions by 48%

All electric home reduced emissions by 61%

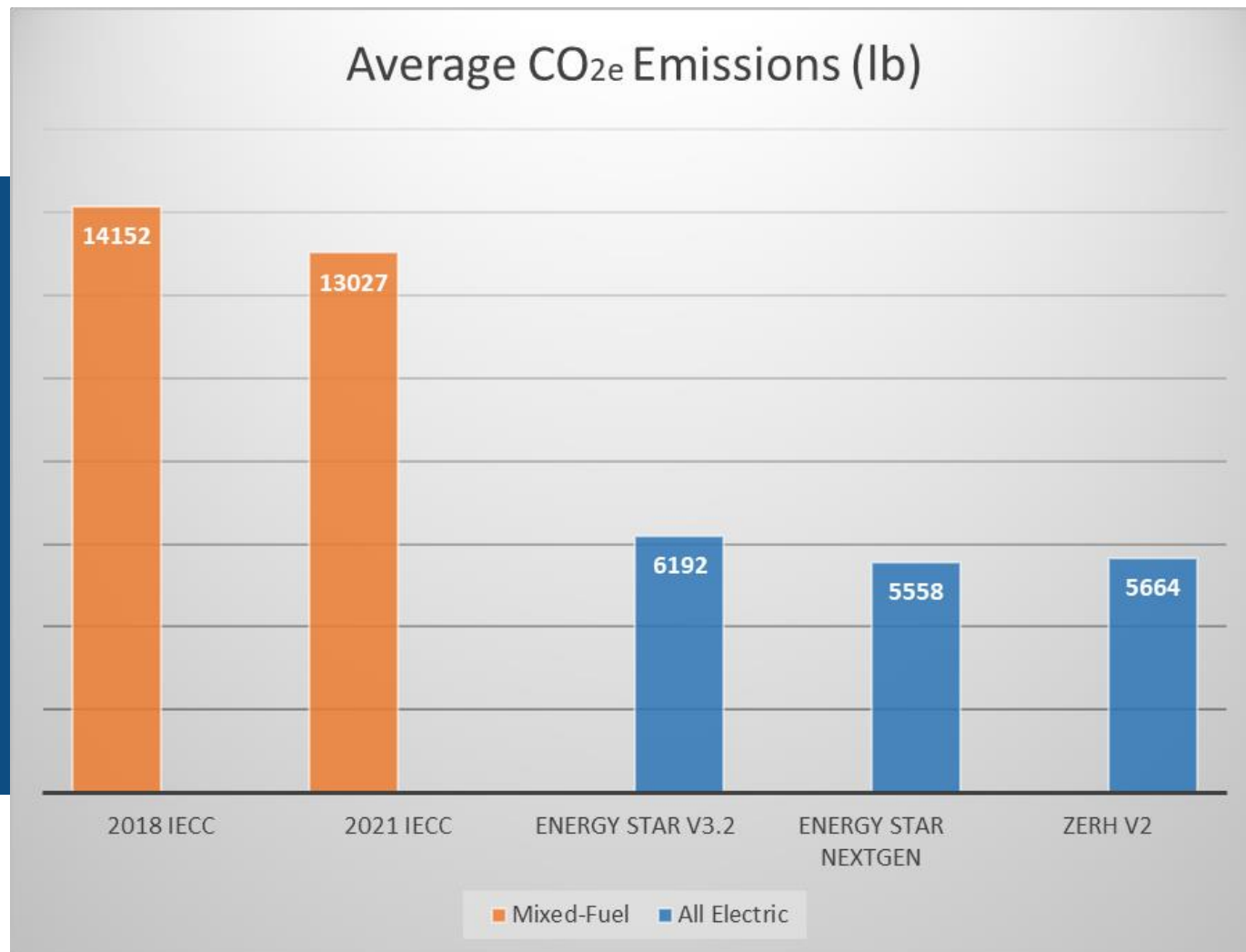


National Average CO₂e Emissions Impact



Going NextGen reduces emissions by more than just electrifying either an ENERGY STAR v3.2 home or a ZERH v2 home

National Average CO₂e Emissions Impact



Efficiency + Electrification
= Greatest Reductions

ENERGY STAR NextGen sees
most significant emissions reductions



Overview of Program Requirements

Home/Building Address: _____ City: _____ State: _____ Permit Date: _____			
1. ENERGY STAR Certification Baseline	Must Correct	Rater Verified ¹	N/A ²
1.1 Home or building certified under one of the following ENERGY STAR New Construction programs (check box): <u>Single Family New Homes (SFNH)</u> <u>Multifamily New Construction (MFNC)</u> <input type="checkbox"/> SFNH National Version 3.2 <input type="checkbox"/> MFNC National Version 1.2 California Projects Only: <input type="checkbox"/> SFNH California Version 3.4 <input type="checkbox"/> MFNC California Version 1.4	<input type="checkbox"/>	<input type="checkbox"/>	-
2. Dwelling Unit Space Heating			
2.1 ENERGY STAR certified heat pump(s) installed and sized in accordance with the HVAC Design Report	<input type="checkbox"/>	<input type="checkbox"/>	-
2.1.1 For each air-source heat pumps, blower fan volumetric airflow, blower fan watt draw, and refrigerant charge are Grade I per ANSI / RESNET / ACCA Std. 310 ³	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.1.2 In CZ 5-8, installed air-source heat pumps are ENERGY STAR certified for Cold Climate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.2 Each heat pump is controlled by a wifi thermostat or ENERGY STAR certified smart thermostat, or meets EPA's 'connected' criteria	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.3 Each air-source heat pump has two-speed or variable-speed blower fan & two-speed or variable-speed compressor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Dwelling Unit Water Heating			
3.1 ENERGY STAR certified heat pump water heater that is 208/240 volts is installed ⁴	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.2 Each heat pump water heater has minimum rated storage volume ⁵ as follows: Bedrooms ⁶: 0-1 2 3 4+ Minimum Tank Capacity: 36 45 59 72	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.3 Each heat pump water heater located within occupiable space has a manufacturer-rated sound level ≤ 55 dBA ^{7,8}	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.4 Each heat pump water heater meets EPA's 'connected' criteria or has an ANSI / CTA-2045 compliant modular communications interface (EcoPort)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Cooking			
4.1 Cooktops and ovens are electric ⁹ . Induction range elements / burners are recommended, but not required	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Electric Vehicle Charging Infrastructure - For one and two-family dwellings with a private driveway or garage, comply with Item 5.1. For all other dwellings and dwelling units, comply with either Item 5.1 or 5.2			
5.1 <u>EV-Ready</u> : One parking space is provided per dwelling unit that includes all of the items below: ¹⁰	-	-	<input type="checkbox"/>
5.1.1 A powered 208/240 receptacle is installed in garage or within 3 feet of driveway or dedicated parking space ¹¹	<input type="checkbox"/>	<input type="checkbox"/>	-
5.1.2 The electric service panel includes a 40-amp breaker (or greater), and panel directory identifies the branch circuit as "Electric vehicle charging"	<input type="checkbox"/>	<input type="checkbox"/>	-
5.2 EV Chargers and EV-Capable parking spaces are installed, including all of the items below:	-	-	<input type="checkbox"/>
5.2.1 <u>EV Charger</u> : The following minimum number of ENERGY STAR certified EV Chargers installed that meet EPA's 'connected' criteria: ^{12, 13} Parking Spaces: 1-10 spaces 11-20 spaces 21-30 spaces 31-40 spaces 41+ spaces EV Chargers: 1 2 3 4 5	<input type="checkbox"/>	<input type="checkbox"/>	-
5.2.2 <u>EV-Capable</u> : Conduit is installed that runs continuously from the electrical panel to a junction box that terminates within 3 feet of at least 20% of the development's parking spaces ^{14, 15}	<input type="checkbox"/>	<input type="checkbox"/>	-
Rater Name: _____ Rater Inspection Date: _____ Rater Initials: _____			

1. ENERGY STAR Certification Baseline

- Certify under:



ES Single Family New Homes
National Version 3.2

OR



ES Multifamily New Construction
National Version 1.2

1. ENERGY STAR Certification Baseline

- Certify under:



ES Single Family New Homes
California Version 3.4

OR



ES Multifamily New Construction
California Version 1.4



1. ENERGY STAR Certification Baseline

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This requirement must be met even if these more rigorous specifications are not yet required in the state for base ENERGY STAR program certification

1. ENERGY STAR Certification Baseline

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Manufactured homes are not currently available for NextGen at this time

2. Dwelling Unit Space Heating

2. Dwelling Unit Space Heating			
2.1 ENERGY STAR certified heat pump(s) installed and sized in accordance with the HVAC Design Report	<input type="checkbox"/>	<input type="checkbox"/>	-
2.1.1 For each air-source heat pumps, blower fan volumetric airflow, blower fan watt draw, and refrigerant charge are Grade I per ANSI / RESNET / ACCA Std. 310 ³	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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2.3 Each air-source heat pump has two-speed or variable-speed blower fan & two-speed or variable-speed compressor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



MULTIFAMILY NOTE: ONLY REQUIRED FOR DWELLING UNITS, NOT COMMON SPACES

2. Dwelling Unit Space Heating

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2. Dwelling Unit Space Heating

2.1 ENERGY STAR certified heat pump(s) installed and sized in accordance with the HVAC Design Report



Core ENERGY STAR New Construction Program

Heat Pump
NOT
REQUIRED

VS

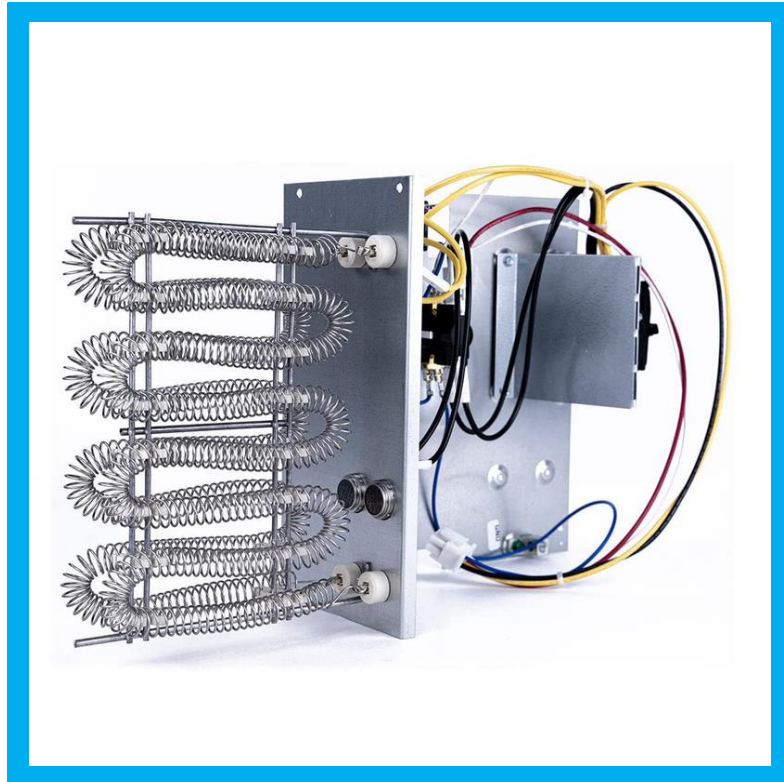
ENERGY STAR
certified
Heat Pump
REQUIRED



ENERGY STAR
NextGen

2. Dwelling Unit Space Heating

A gas furnace is still permitted for backup heating in lieu of an electric-resistance heat strip



2. Dwelling Unit Space Heating

2.1 ENERGY STAR certified heat pump(s) installed and sized in accordance with the HVAC Design Report

IS IT ENERGY STAR CERTIFIED? HOW CAN I TELL?

ENERGY STAR Product Finder

Manufacturer - Model

Type: Split System

Cooling Capacity:
22,200 - 54,000 BTUs (1.9 - 4.5 tons)

SEER2: 17.0 - 20.5

Additional Features ⓘ: Cold Climate

Tax Credit Eligible ⓘ

Heating Capacity at 47°F:
19,600 - 52,000 BTUs

EER2: 11.5 - 12.7

Heating Capacity at 5°F:
29,400 - 40,000 BTUs

HSPF2: 7.8 - 8.7



2. Dwelling Unit Space Heating

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Core ENERGY STAR

Track A 

Track B 

ENERGY STAR NextGen

Track A 

Track B 

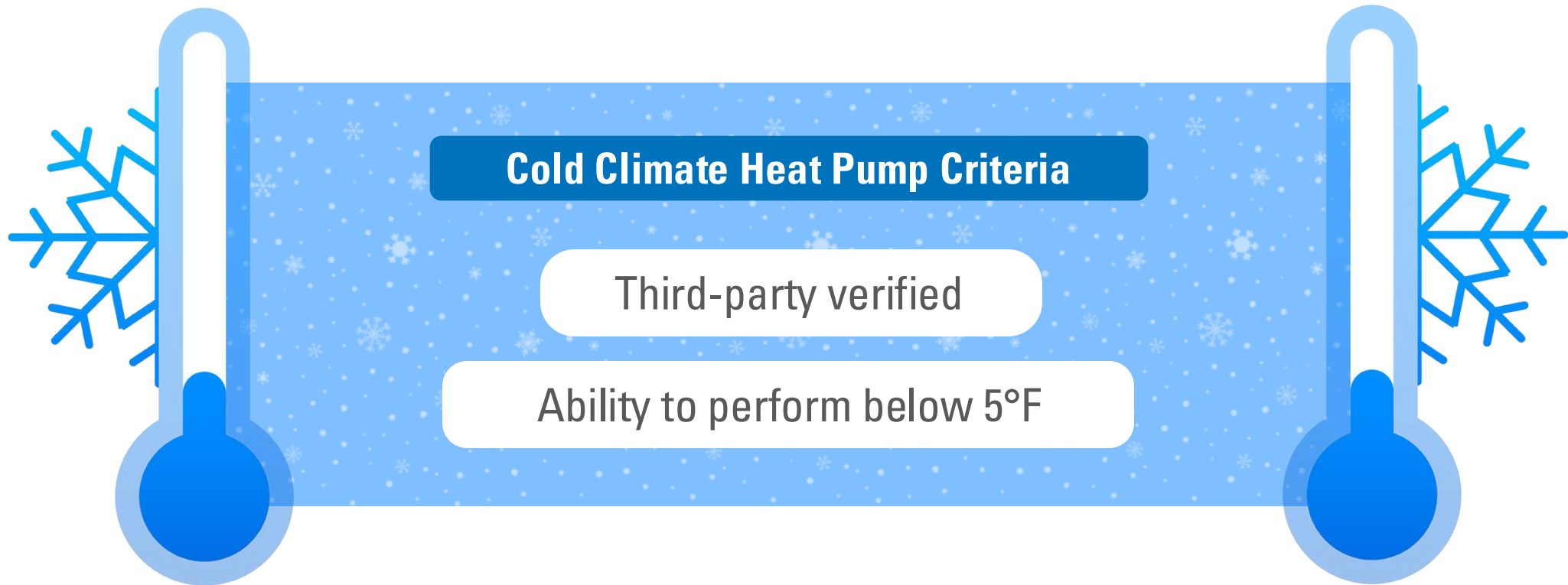
VERIFYING GRADE I

Duct Leakage Requirement	ES SFNH v3.2
Blower Fan Volumetric Airflow	Standard 310
Blower Fan Watt Draw	Standard 310
Refrigerant Charge	Standard 310

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2. Dwelling Unit Space Heating

2.2 Each heat pump is controlled by a Wi-Fi thermostat or ENERGY STAR certified smart thermostat, or meets EPA's 'connected' criteria



EPA's CONNECTED CRITERIA

Identify Products That Provide:

- Energy Reporting
- Remote Consumer Access
- Grid Services Through Connection to Other Systems



National Average CO₂e Emissions Impact

Month	1	396	400	404	406	406	404	401	400	360	299	267	255	252	253	254	255	264	306	357	384	387	384	387	392
	2	386	389	393	393	393	390	389	382	331	275	250	237	232	232	233	235	242	275	329	370	380	375	376	380
	3	358	360	363	364	362	359	355	323	264	226	209	202	201	203	203	206	211	240	290	347	362	354	352	352
	4	344	345	346	348	348	347	327	273	224	200	189	187	187	189	190	194	198	221	266	324	352	346	341	342
	5	371	371	371	374	374	367	323	267	234	216	210	211	212	215	218	223	229	247	281	331	370	370	369	371
	6	392	390	392	394	395	383	327	272	246	231	227	229	233	237	241	246	249	264	291	335	378	385	388	392
	7	426	426	430	431	433	423	365	304	275	261	258	261	266	269	274	280	283	299	325	367	404	412	415	422
	8	426	427	430	433	435	431	390	327	287	265	258	260	265	268	272	277	279	297	333	379	408	411	419	423
	9	404	405	408	410	412	412	392	331	278	255	244	244	247	251	255	259	266	291	340	384	395	390	396	399
	10	377	379	381	383	384	381	376	335	275	242	228	226	227	231	232	235	247	288	343	373	373	364	367	372
	11	386	388	391	393	393	389	387	370	314	262	244	238	239	240	240	244	260	311	362	381	376	372	373	380
	12	392	393	397	400	401	399	395	391	352	294	270	261	259	260	260	262	276	324	371	387	383	379	381	388
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
		Hour																							



2. Dwelling Unit Space Heating

2.2 Each heat pump is controlled by a Wi-Fi thermostat or ENERGY STAR certified smart thermostat, or meets EPA's 'connected' criteria



Easiest Method: Wi-Fi Thermostats



RECOMMENDED

- ENERGY STAR smart thermostats for:
- Two-stage systems & any variable speed system that has a compatible ENERGY STAR smart thermostat

2. Dwelling Unit Space Heating

2.3 Each air-source heat pump has two-speed or variable-speed blower fan & two-speed or variable-speed compressor

This is verified by the Standard 310 HVAC design report

4.10 If AC / HP, blower fan motor & speed type: ³⁴	ECM	Variable	N/A <input type="checkbox"/>
4.11 If AC / HP, compressor speed type: ³⁵	Variable		N/A <input type="checkbox"/>

WHY?

- Quieter
- More Consistent Temperatures
- Greater Comfort



WHAT ABOUT GEOHERMAL SYSTEMS?



2. Dwelling Unit Space Heating

2.1 ENERGY STAR certified heat pump(s) installed and sized in accordance with the HVAC Design Report.

2.1.1 For each air-source heat pumps, blower fan volumetric airflow, blower fan watt draw, and refrigerant charge are Grade I per ANSI / RESNET / ACCA Std. 310. ³

2.1.2 In CZ 5-8, installed air-source heat pumps are ENERGY STAR certified for Cold Climate.

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3. Dwelling Unit Water Heating

3.1 ENERGY STAR certified heat pump water heater that is 208/240 volts is installed ⁴



WHY?

- 4x More Efficient
- Use 70% Less Energy
- Saves Money!

How Can I Verify This?

Check ES Product Finder

Heat pump water heaters must be verified with the ENERGY STAR Product Finder, not just with product literature.



3. Dwelling Unit Water Heating

3.1 ENERGY STAR certified heat pump water heater that is 208/240 volts is installed ⁴

FOOTNOTE 4

A single supplemental electric spot water heating system that serves one appliance or bathroom is allowed. The minimum rated storage volume for the dwelling unit is not impacted.



3. Dwelling Unit Water Heating

3.2 Each heat pump water heater has minimum rated storage volume⁵ as follows:

Bedrooms ⁶	0-1	2	3	4+
Minimum Tank Capacity	36	45	59	72

Why Tank Size? Where Did the Numbers Come From?

1. A minimum tank size ensures majority of water heating occurs from heat pump, rather than the inefficient backup electric elements in the storage tank.
2. These minimum tank sizes are derived from the first Hour Rating, rounded down to nearest commonly manufactured tank size.

3. Dwelling Unit Water Heating

3.3 Each heat pump water heater located within occupiable space has a manufacturer-rated sound level ≤ 55 dBA ^{7 8}

What is Occupiable Space?

FOOTNOTE 7

Per ASHRAE 62.2-2010, the term “occupiable space” is defined as any enclosed space inside the pressure boundary and intended for human activities, including, but not limited to, all habitable spaces, toilets, closets, halls, storage and utility areas, and laundry areas.



Why is This Needed?

Heat Pump Water Heaters may make more noise when operating than some gas or conventional electric water heaters



3. Dwelling Unit Water Heating

3.3 Each heat pump water heater located within occupiable space has a manufacturer-rated sound level ≤ 55 dBA ^{7 8}

How To Verify? FOOTNOTE 8 - NEEA LIST

Table 1. Integrated HPWH Product Tier Overview

	Minimum Cool Climate Efficiency (CCE)*	Minimum Features	Sound Levels**	Demand Response-Enabled?
Tier 1.0	2.0	<ul style="list-style-type: none"> ENERGY STAR compliance Freeze protection 	dBA < 65	Optional
Tier 2.0	2.3	Tier 1 plus: <ul style="list-style-type: none"> Minimal use of resistance heating elements (see Section 2.5.1) Compressor shut-down/notification 10 year warranty Condensate management 	dBA < 60	Optional
Tier 3.0	2.6	Tier 2 plus: <ul style="list-style-type: none"> Simultaneous intake and exhaust ducting capabilities Air filter management Override and default mode behavior as per Section 2.6.1 	dBA < 55	Required
Tier 4.0	3.0	Tier 3 plus: <ul style="list-style-type: none"> Physical design or default controls that limit resistance element heating to less than upper 50% of tank 	dBA < 50	Required
Tier 5.0	3.5	Tier 4 plus: <ul style="list-style-type: none"> No resistance element usage in default 	dBA < 50	Required

* See Appendix B.1.2 for details on Cool Climate Efficiency definition and calculation method.

** See Appendix D for details on Sound Level definition and calculation method.

- Manufacturer-Rated Sound Level ≤ 55 dBA

OR

- Heat pump listed on NEEA Advanced Water Heater Specification Qualified Products List as Tier 3 or greater

3. Dwelling Unit Water Heating

3.4 Each heat pump water heater meets EPA's 'connected' criteria or has an ANSI/CTA-2045 compliant modular communications interface (EcoPort)

AMERICAN STANDARD WATER HEATERS - ASHPWH-50***** Compare

Hybrid/Electric Heat Pump - Electric Uniform Energy Factor (UEF): 3.75

Storage Volume (gallons): 45 First Hour Rating (gallons): 60

Connected Capable

Tax Credit Eligible ⓘ

[CLICK FOR PRODUCT DETAILS](#)

Integrated Water Heaters

Brand	Model ^a	Volume (gal)	Rec'd Max Household Size	CCE ^b Cool Climate Efficiency	UEF Uniform Energy Factor	EcoPort ^c	Plug-In ^d	Qualified Date
Tier 4 continued								
Rheem	PROPH65 T2 RH375-15	65	3	3.2	4.05	Yes	No	4/23/20
Rheem	PROPH65 T2 RH375-30	65	3	3.2	4.05	Yes	No	4/23/20
Rheem	PROPH65 T2 RH375-S0	65	3	3.2	4.05	Yes	No	4/23/20
Rheem	PROPH80 T2 RH375-15	80	4+	3.2	4.07	Yes	No	4/23/20
Rheem	PROPH80 T2 RH375-30	80	4+	3.2	4.07	Yes	No	4/23/20
Rheem	PROPH80 T2 RH375-S0	80	4+	3.2	4.07	Yes	No	4/23/20



4. Electric Cooking

4.1 Cooktops and ovens are electric⁹. Induction range elements/burners are recommended, but not required.



This requirement does not apply to sleeping units without kitchens but **DOES APPLY** to kitchens in common spaces. This requirement does not apply to cooking appliances located outside the building thermal envelope (e.g., outdoor kitchens and grills).

4. Electric Cooking Health Impacts

WHY IS THIS A REQUIREMENT?



Most visible fuel used
in homes



Many health impacts
are from cooking fuels

4. Electric Cooking

4.1 Cooktops and ovens are electric⁹. Induction range elements/burners are recommended, but not required



?

If I have an electric range, can I install gas wok or second gas cooktop?



No.

!

5. Electric Vehicle Charging Infrastructure

5.1 - EV READY

APPLIES TO:

One and Two-Family Dwellings
with a private driveway or garage
(single family homes, duplexes, & townhomes)



5.2 - EV CHARGERS & PARKING

APPLIES TO:

All Other Dwellings & Dwelling Units
(multifamily)



(Can Also Comply with 5.1)

5. Electric Vehicle Charging Infrastructure

5.1 - EV READY

Examples of projects that need to follow this approach



5. Electric Vehicle Charging Infrastructure

5.1 - EV READY

One parking space is provided per dwelling unit that includes all of the items below: ¹⁰

5.1.1 A powered 208/240 receptacle is installed in garage or within 3 feet of driveway or dedicated parking space ¹¹

5.1.2 The electric service panel includes a 40-amp breaker (or greater), and panel directory identifies the branch circuit as “Electric vehicle charging”



5. Electric Vehicle Charging Infrastructure

5.1 - EV READY

One parking space is provided per dwelling unit that includes all of the items below: ¹⁰

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5.1.2 The electric service panel includes a 40-amp breaker (or greater), and panel directory identifies the branch circuit as "Electric vehicle charging"

FOOTNOTE 10

Alternatively, when there are fewer parking spaces than dwelling units, meet Item 5.1 for 100% of units that have parking spaces.

5. Electric Vehicle Charging Infrastructure

5.1.1 A powered 208/240 receptacle is installed in garage or within 3 feet of driveway or dedicated parking space ¹¹

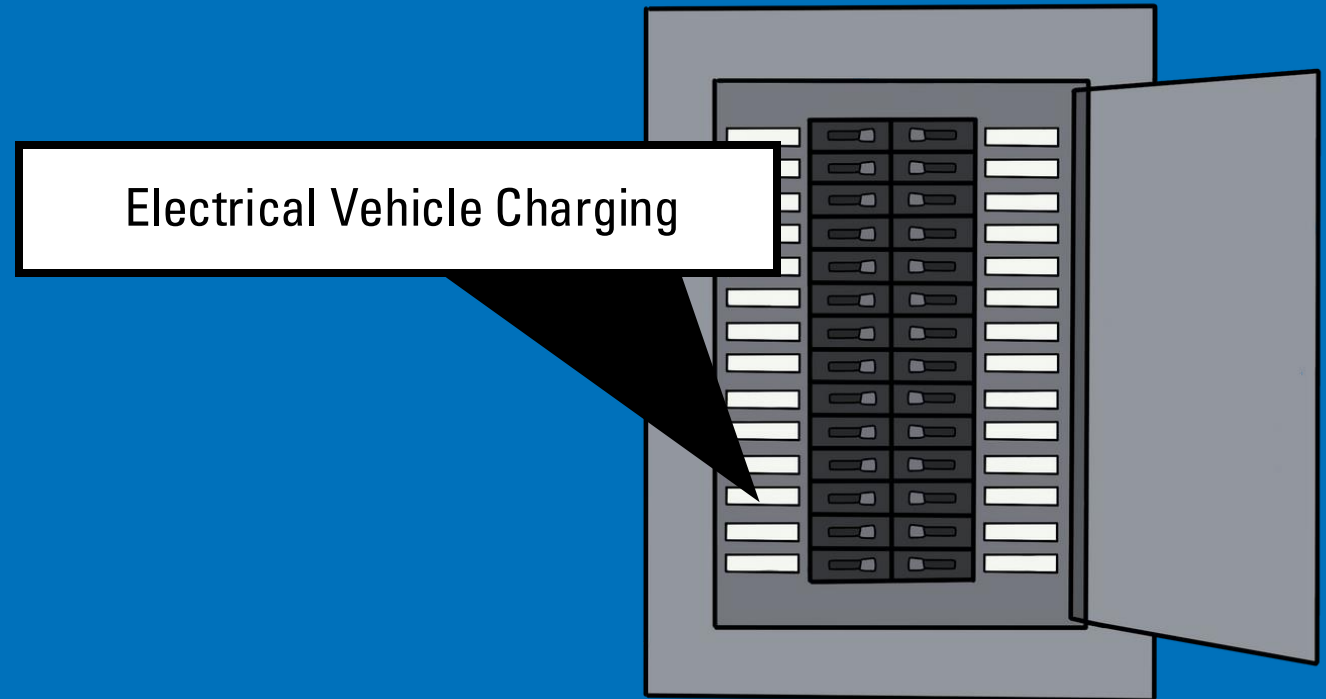


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5.1.1 A powered 208/240 receptacle is installed in garage or within 3 feet of driveway or dedicated parking space ¹¹



5.1.2 The electric service panel includes a 40-amp breaker (or greater), and panel directory identifies the branch circuit as “Electric vehicle charging”

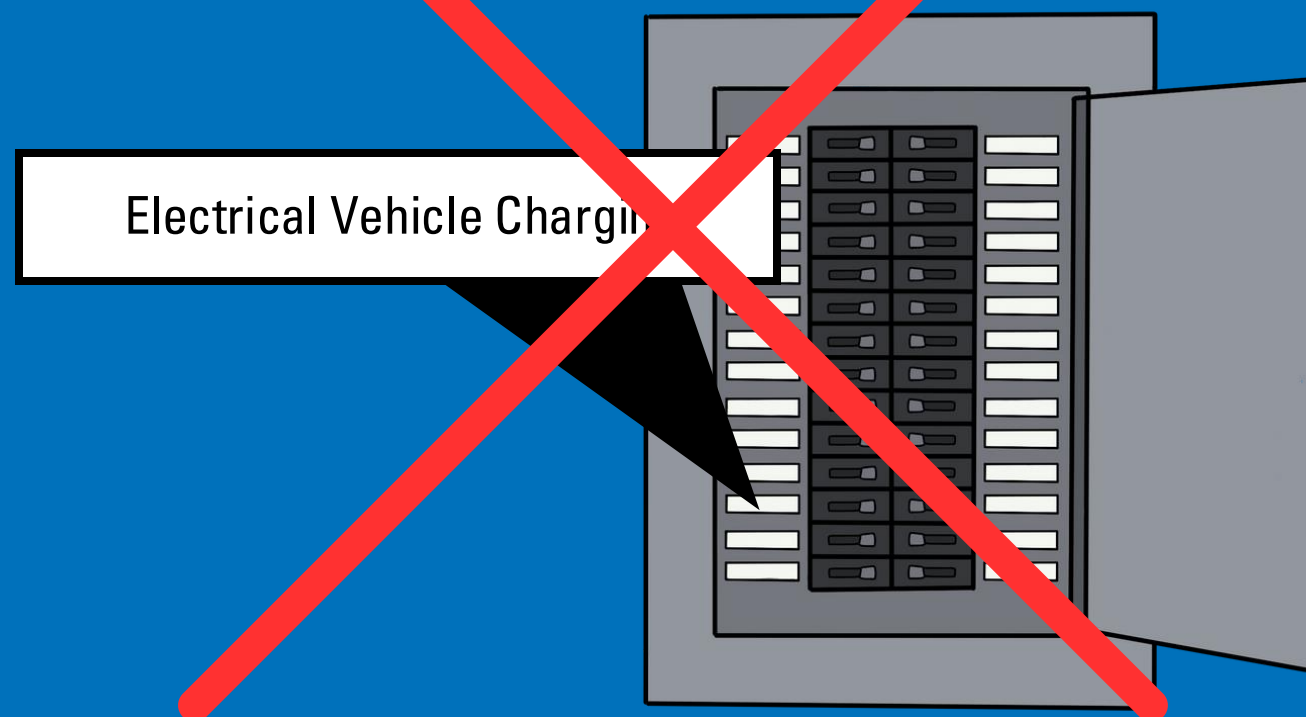


5. Electric Vehicle Charging Infrastructure

FOOTNOTE 11

If the addition of the 40-amp Electric Vehicle Charging branch circuit increases the electrical service to the next nominal size (to 400-amp service), connecting the circuit to the electrical panel is not required. The Rater shall retain a copy of the electrical sizing calculations or statement from the electrical designer for their records but need not evaluate the documentation to certify the home.

5.1.2 The electric service panel includes a 40-amp breaker (or greater), and panel directory identifies the branch circuit as "Electric vehicle charging"



5. Electric Vehicle Charging Infrastructure

5.2 - EV CHARGERS & EV-CAPABLE SPACES

EV Chargers and EV-Capable parking spaces are installed, including all of the items below:

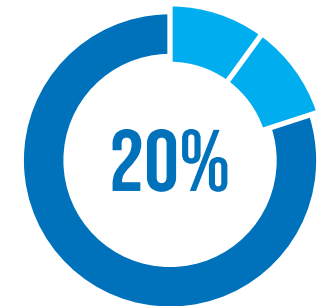
5.2.1 EV Charger:

The following minimum number of ENERGY STAR certified EV Chargers installed that meet EPA's 'connected' criteria: ^{12 13}

Parking Spaces	1-10	11-20	21-30	31-40	41+
EV Chargers	1	2	3	4	5

5.2.2 EV-Capable:

Conduit is installed that runs continuously from the electrical panel to a junction box that terminates within 3 feet of at least 20% of the development's parking spaces ^{13 14 15}



5. Electric Vehicle Charging Infrastructure

5.2 - EV CHARGERS & EV-CAPABLE SPACES

5.2.1 EV Charger:

The following minimum number of ENERGY STAR certified EV Chargers installed that meet EPA's 'connected' criteria: ¹² ¹³

Parking Spaces	1-10	11-20	21-30	31-40	41+
EV Chargers	1	2	3	4	5

What if the Total # of Spaces Exceeds 50?

The minimum EV Charger count remains 5

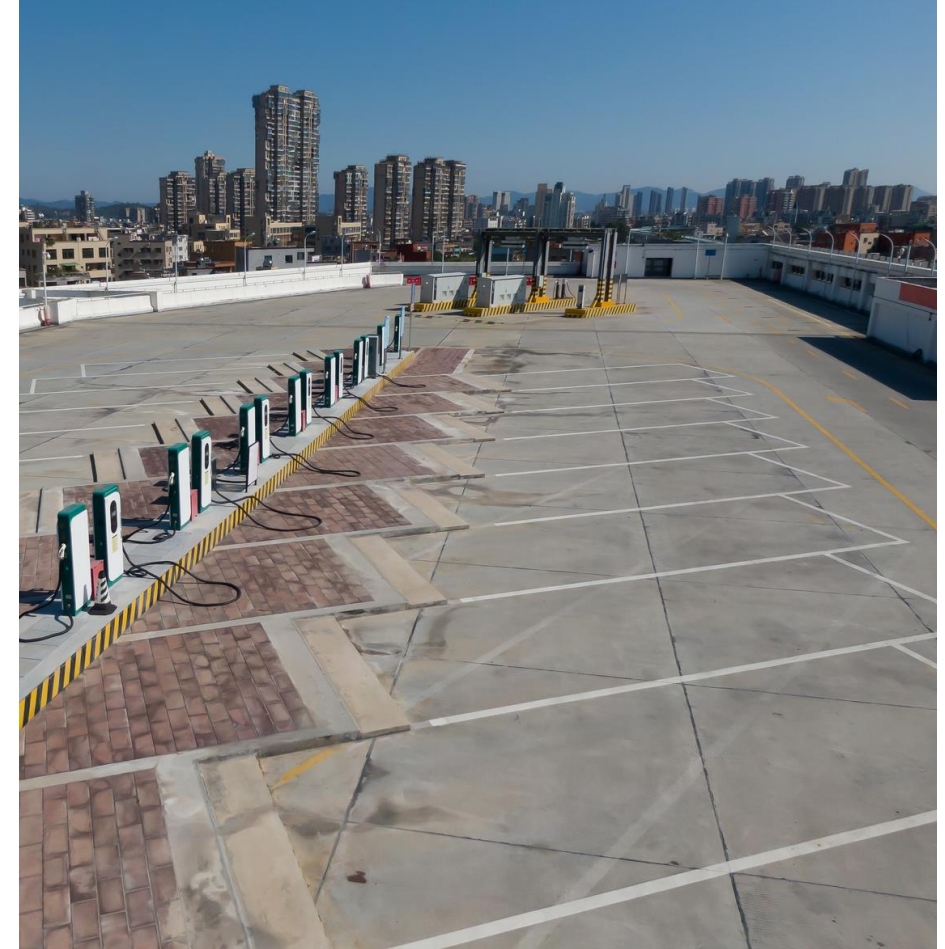
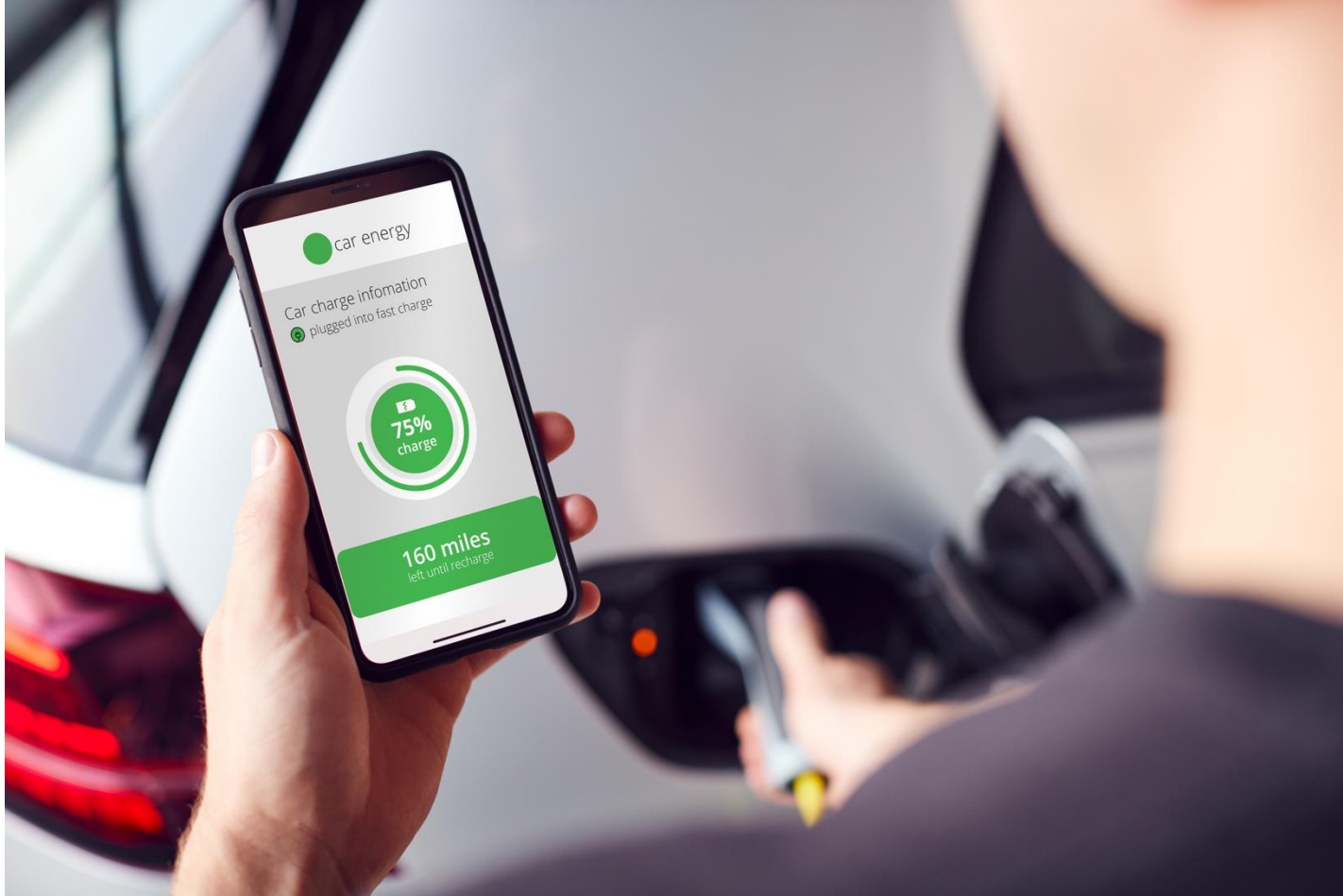
EXAMPLES

Parking Lot With:

- 45 Spaces = 5 EV Chargers
- 55 Spaces = 5 EV Chargers
- 70 Spaces = 5 EV Chargers

5. Electric Vehicle Charging Infrastructure

ENERGY STAR Connected Capable Criteria



5. Electric Vehicle Charging Infrastructure

ENERGY STAR Connected Capable Criteria

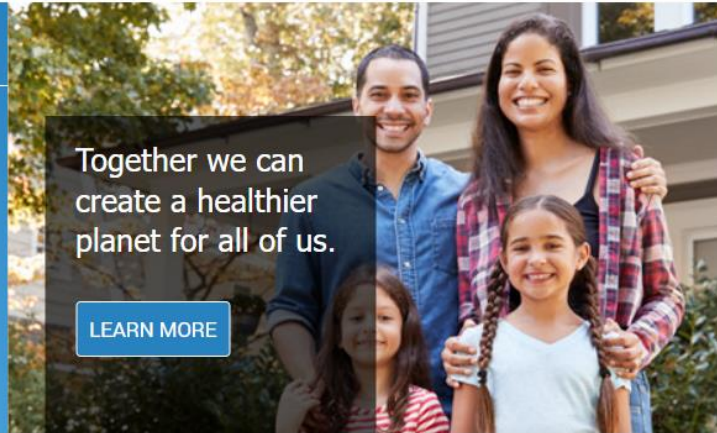
Find and Compare

Change Product



ENERGY STAR Certified
Electric Vehicle Chargers (DC-Output)

Visit the [Electric Vehicle Chargers \(DC-Output\)](#) page for usage tips and buying guidelines.



Together we can create a healthier planet for all of us.

LEARN MORE

63 Records Found

Filter Your Results

filter by keyword

Brand Name

- ABB (3)
- AddEnergy Technologies Inc. (1)
- AUTEL (11)
- Blink Network, LLC (1)
- BTCPower (1)

Sort by:

Average Loading-Adjusted Efficiency



Share Your Results

[No rebates for Electric Vehicle Chargers \(DC-Output\) found in \(32703 \) - click here to search other areas >>](#)

AUTEL - UF120C3001

Compare

Maximum Output Power: 120.0

No Vehicle Mode Input Power (watts) AC-Input: 91.98

Partial On Mode Input Power (watts) AC-Input: 95.56

Connected Capable using Wi-Fi,Wired Ethernet

CLICK FOR PRODUCT DETAILS



ENERGY STAR CERTIFIED

Electric Vehicle Chargers (DC-Output)

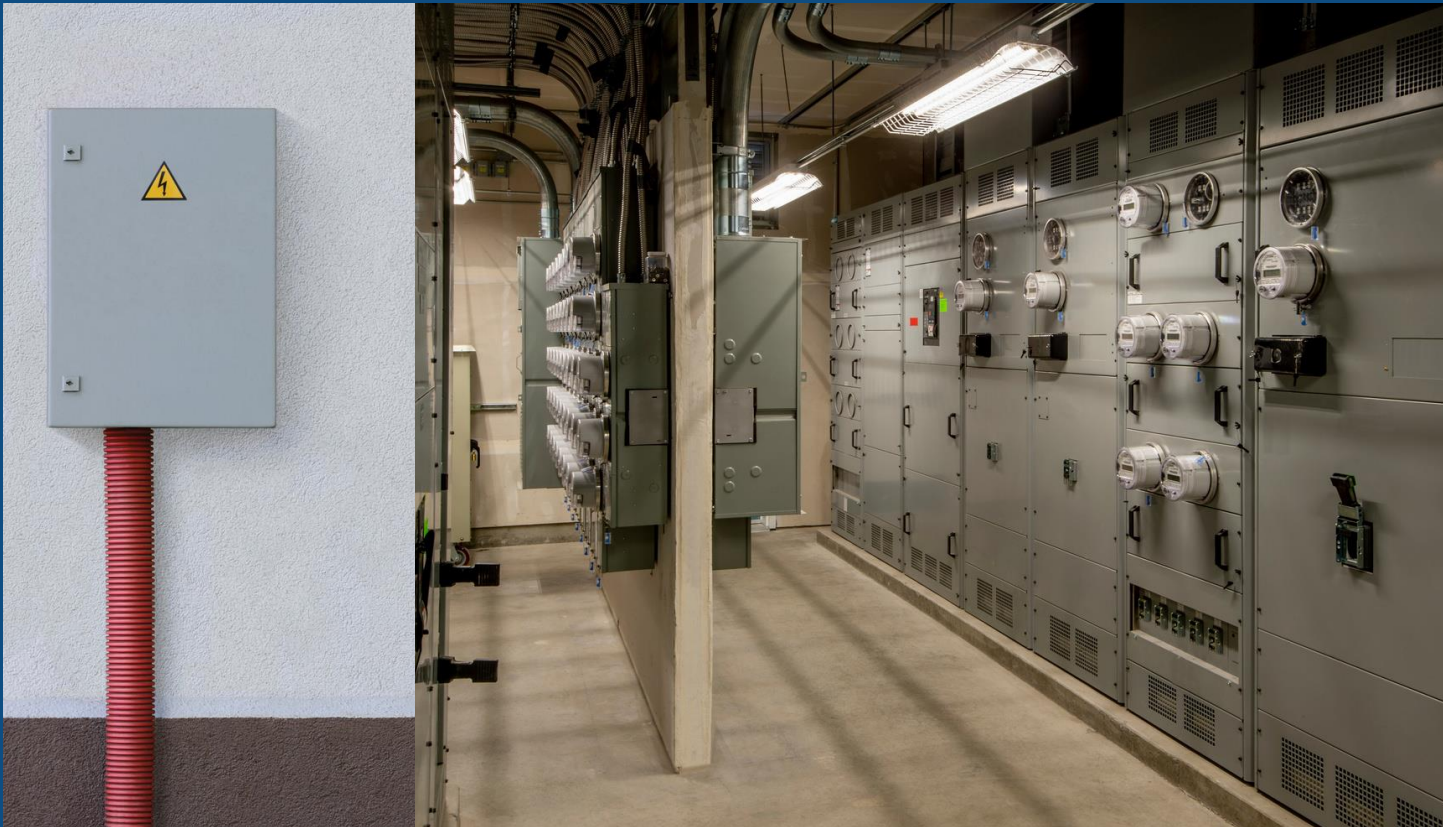
AUTEL - UF120C3001 : UF120C3001

Specifications

Brand Name:	AUTEL
Model Name:	UF120C3001
Model Number:	UF120C3001
ENERGY STAR Unique ID:	2507636
Type:	DC-output (AC-input)
Rated Input Voltage (V) AC-Input:	480
DC-input or AC-input:	AC-input
ENERGY STAR Partner:	Autel Digital Power Co., Ltd.
Maximum Nameplate Output Current (A) AC-Input:	200
Maximum Measured Luminance of the High Res Display (candelas per m2):	252.0
Output Cord Length (ft.):	25
Number of Outputs:	1
Output Cord Gauge (AWG):	1
Single Phase or Three Phase:	Three Phase
Product Configuration:	All-in-One Product Configuration
Maximum Available Output Power:	120000
Maximum Output Power:	120.0
Automatic Brightness Control Capable?:	No
Connected Capable:	Yes
Connects Using:	Wi-Fi,Wired Ethernet
Network Connection Types Available:	Gigabit Ethernet,Wi-Fi,Cellular
Screen Area, if EVSE has high res display (in2):	311.67
Connector Type:	Combined Charging System (CCS)
DR Protocol:	Open Charge Point Protocol (OCPP)
Is Broadband Internet Connection Needed for Demand Response?:	No
Network Security Standards:	ETSI EN 303 645
Protocols Used to Support Smart Charging:	SAE J1772,ISO 15118-2 or later
Integral Battery Bank:	No
Product Features:	None
Idle Mode Input Power (watts) AC- Input:	315.0

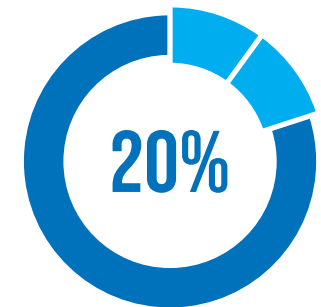
5. Electric Vehicle Charging Infrastructure

5.2 - EV CHARGERS & EV-CAPABLE SPACES



5.2.2 EV-Capable:

Conduit is installed that runs continuously from the electrical panel to a junction box that terminates within 3 feet of at least 20% of the development's parking spaces ^{13 14 15}



5. Electric Vehicle Charging Infrastructure

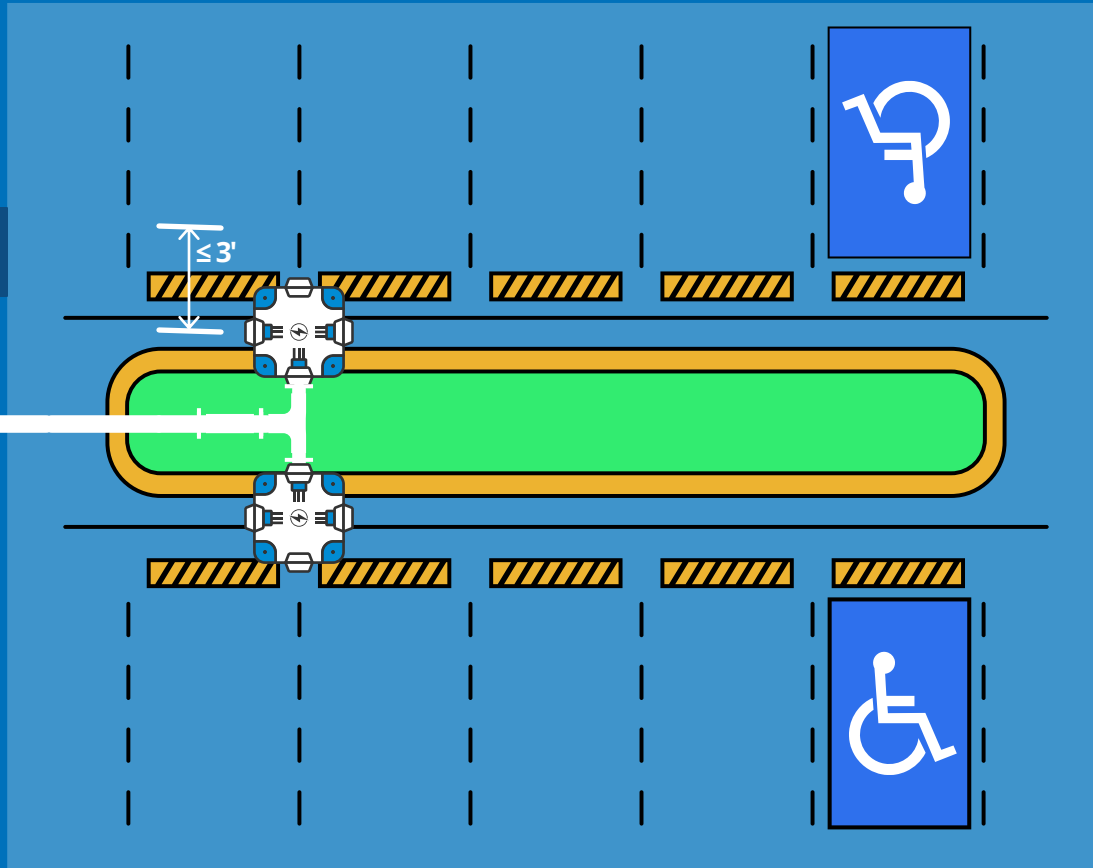
5.2 - EV CHARGERS & EV-CAPABLE SPACES

48 Parking Spaces Total

$$.20 \times 48 = 9.6$$

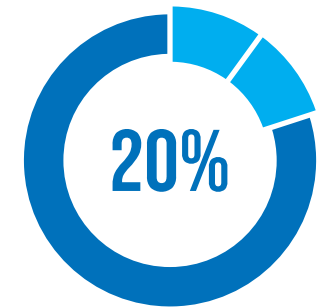
Minimum EV-Capable Spaces

10



5.2.2 EV-Capable:

Conduit is installed that runs continuously from the electrical panel to a junction box that terminates within 3 feet of at least 20% of the development's parking spaces ^{13 14 15}



5. Electric Vehicle Charging Infrastructure

5.2 - EV CHARGERS & EV-CAPABLE SPACES

FOOTNOTE

12

FOOTNOTE

13

FOOTNOTE

14

FOOTNOTE

15

5. Electric Vehicle Charging Infrastructure

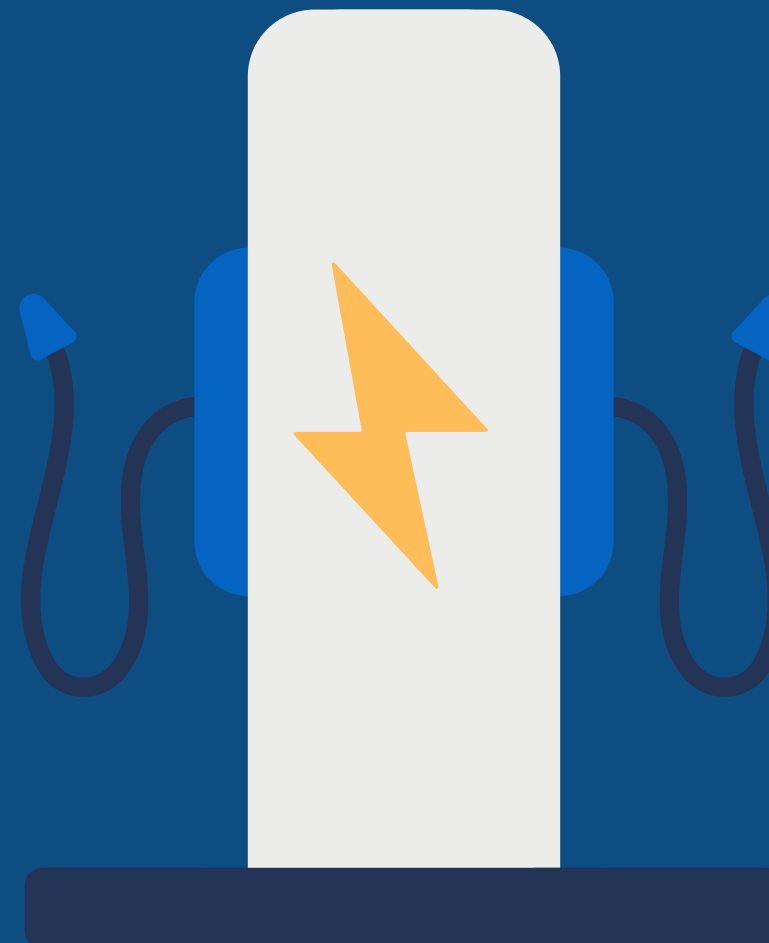
5.2 - EV CHARGERS & EV-CAPABLE SPACES

FOOTNOTE

12

FOOTNOTE 12

EV Chargers that contain two charging ports may be counted as two chargers, so long as the connectors can reach and charge EVs in two parking spaces simultaneously.



5. Electric Vehicle Charging Infrastructure

5.2 - EV CHARGERS & EV-CAPABLE SPACES

FOOTNOTE

12

FOOTNOTE

13

FOOTNOTE 13

When calculating the number of EV chargers and EV-Capable spaces required, include all parking spaces in the development except for one and two-family dwellings' private driveways or garages that must comply with Item 5.1. For this purpose, the "development" includes the combined areas covered by the project's site permit and zoning permit. The number of required compliant spaces should be rounded up to the nearest whole number.

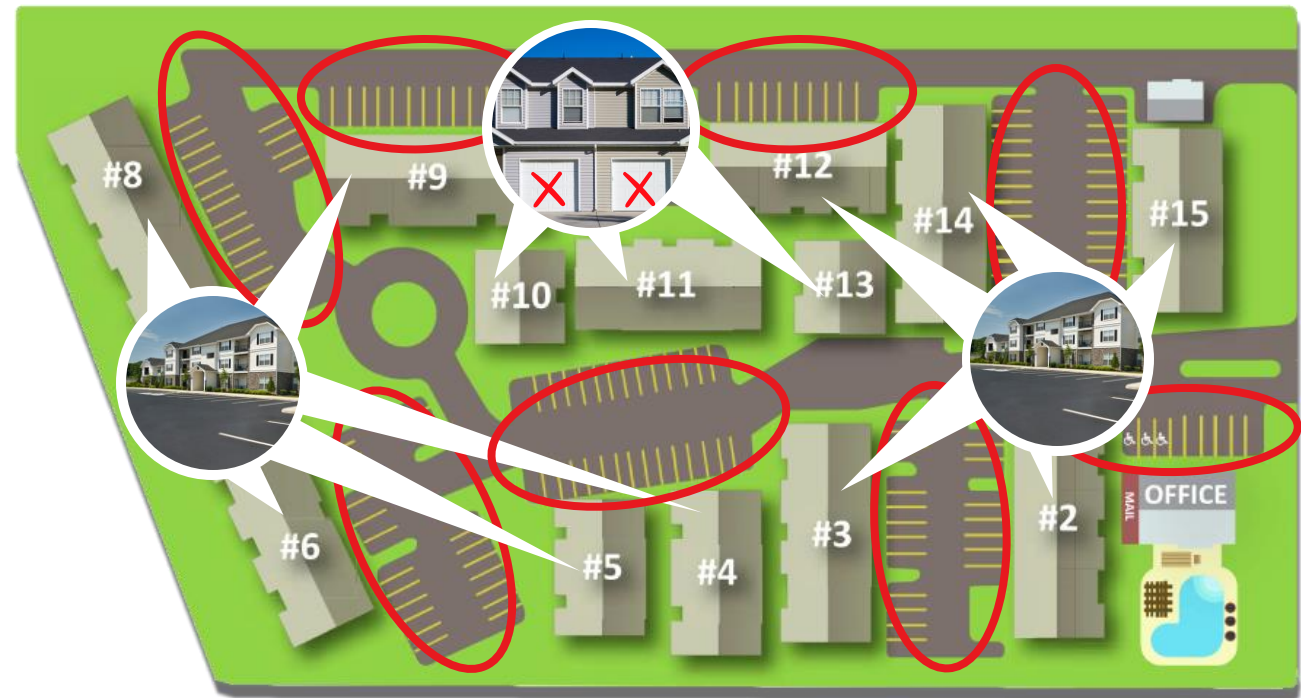
5. Electric Vehicle Charging Infrastructure

5.2.1 - Calculating the Number of Parking Spaces

EXAMPLE 1

Multiple Multifamily Buildings

- What are the requirements for multiple buildings in a community/development?



5. Electric Vehicle Charging Infrastructure

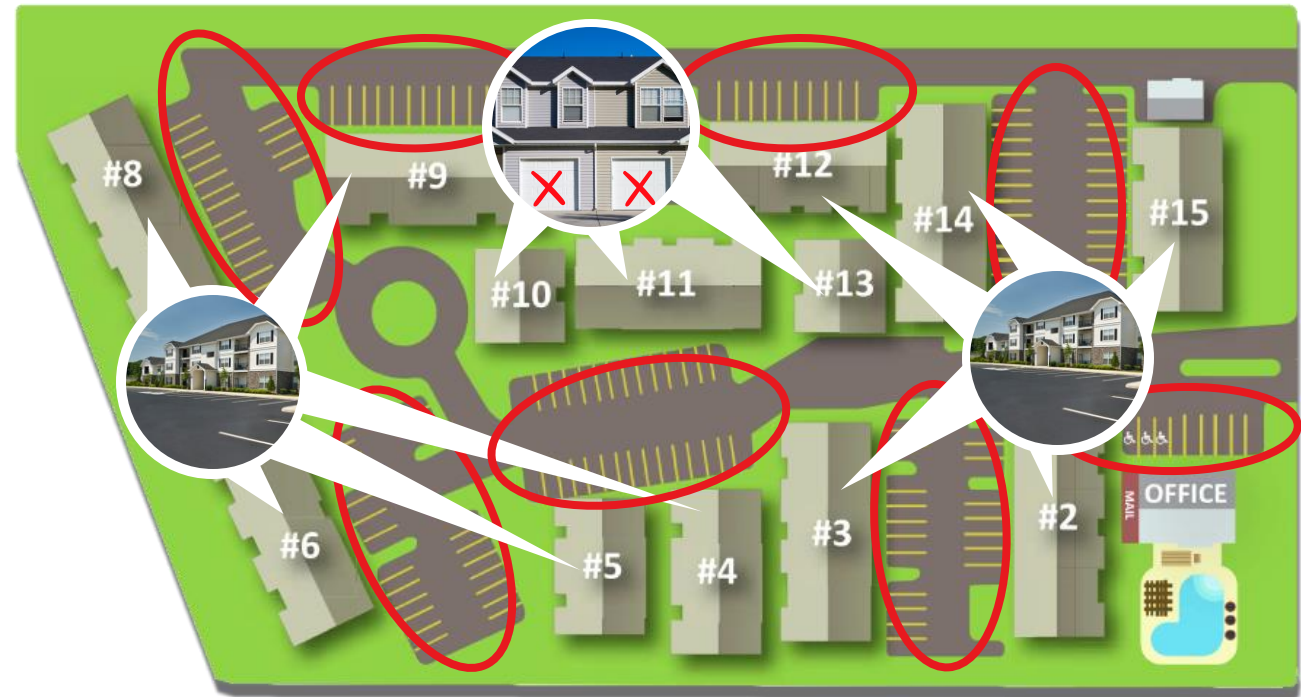
5.2.1 - Calculating the Number of Parking Spaces

EXAMPLE 1

Multiple Multifamily Buildings

- What are the requirements for multiple buildings in a community/development?

ANSWER: It does not matter how many buildings there are. All spaces within a development count towards the total number of spaces, excluding those which must comply with 5.1 (single- and two-family dwellings with private driveways or garages).



5. Electric Vehicle Charging Infrastructure

5.2.1 - Calculating the Number of Parking Spaces

EXAMPLE 2

Assigned parking spots in a shared parking area

- Which requirement should be followed?



5. Electric Vehicle Charging Infrastructure

5.2.1 - Calculating the Number of Parking Spaces

EXAMPLE 2

Assigned parking spots in a shared parking area

- Which requirement should be followed?

ANSWER: May use approach in 5.2, even if parking spots are assigned to an apartment, or even purchased as part of a condo. Remember though that 5.1 can optionally be followed for any project.



5. Electric Vehicle Charging Infrastructure

5.2.1 - Calculating the Number of Parking Spaces

EXAMPLE 3

Detached Rented Garages

- Which requirement should be followed?



5. Electric Vehicle Charging Infrastructure

5.2.1 - Calculating the Number of Parking Spaces

EXAMPLE 3

Detached Rented Garages

- Which requirement should be followed?

ANSWER: These are just like assigned parking spaces. The only potential difference is that for multi-car garages, each space in the garage would count as a space. Meeting the EV-Ready requirement of 5.1 for one space in the garage would take care of the garage and remove the spaces from the total count in 5.2.2.



5. Electric Vehicle Charging Infrastructure

5.2 - EV CHARGERS & EV-CAPABLE SPACES

FOOTNOTE 14

An EV-Ready parking space qualifies as EV-Capable. EV Chargers also qualify as EV-Capable, except those required to meet 5.2.1.



FOOTNOTE

14

FOOTNOTE

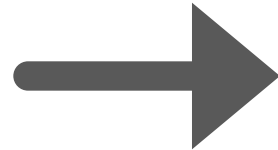
15

5. Electric Vehicle Charging Infrastructure

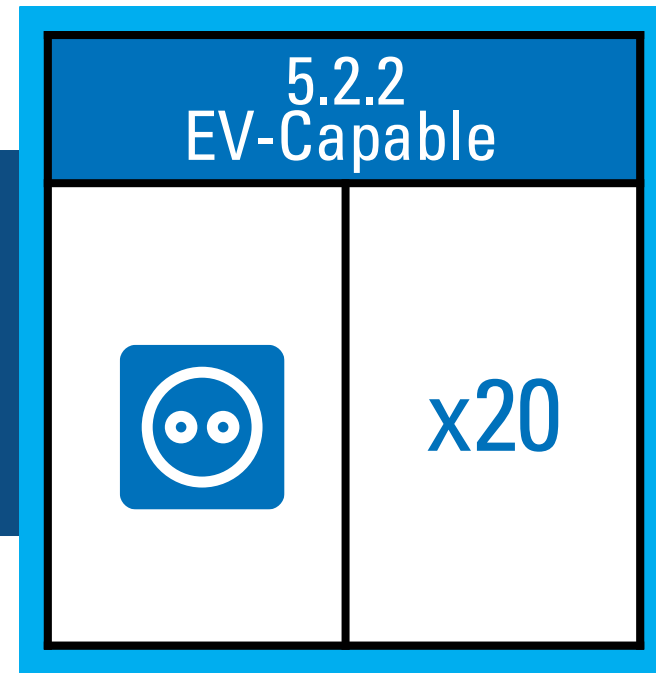
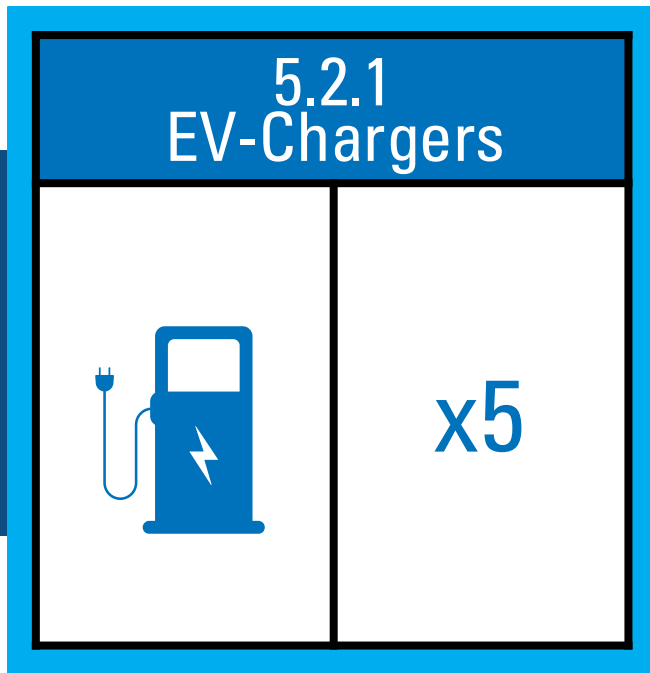
5.2.2 EV-Capable

FOOTNOTE 14 EXAMPLE

100 Parking Spaces



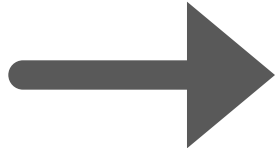
20% of 100 = 20 EV-Capable Parking Spots

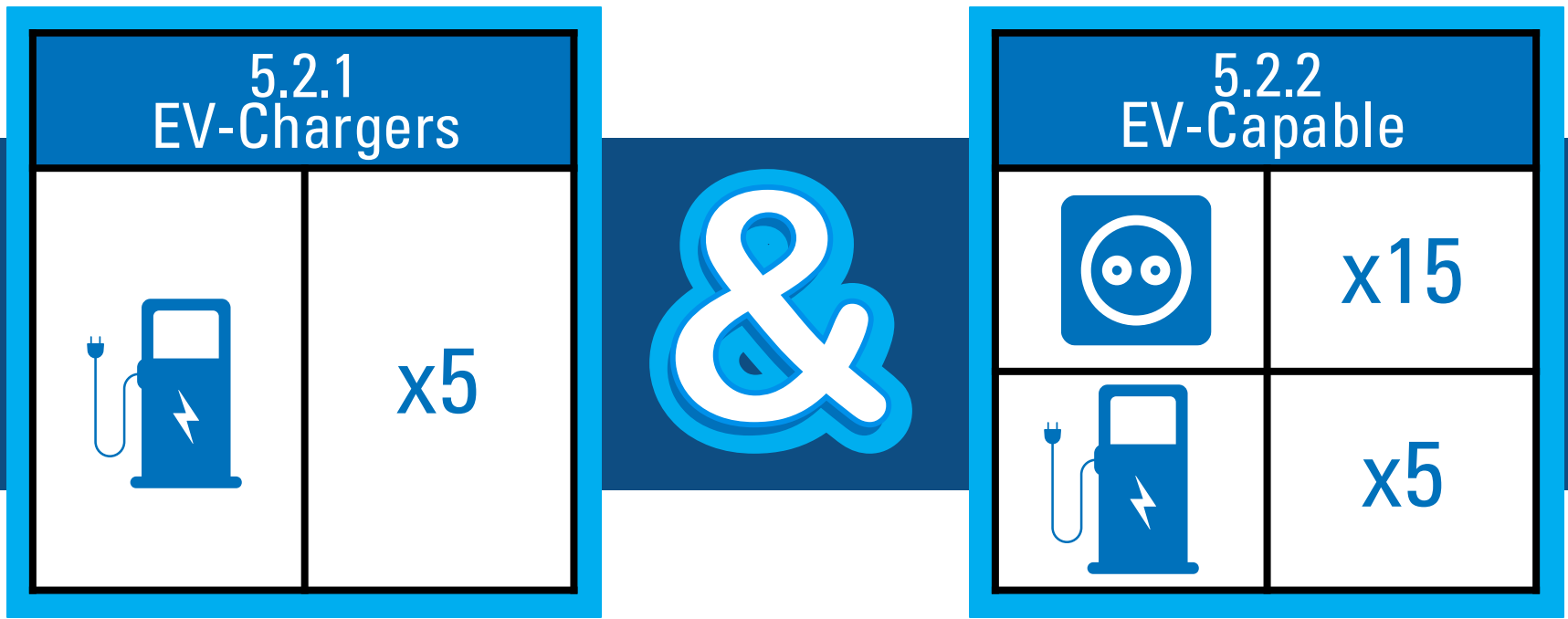


5. Electric Vehicle Charging Infrastructure

5.2.2 EV-Capable

FOOTNOTE 14 EXAMPLE

100 Parking Spaces  20% of 100 = 20 EV-Capable Parking Spots



5. Electric Vehicle Charging Infrastructure

5.2 - EV CHARGERS & EV-CAPABLE SPACES

FOOTNOTE 15

Projects with a common area electrical room may have the conduit terminate anywhere within the electrical room.

Parking spots in a covered garage are deemed EV-Capable if the conduit terminates anywhere within the garage on that parking level.



FOOTNOTE

15

5. Electric Vehicle Charging Infrastructure

5.2 - EV CHARGERS & EV-CAPABLE SPACES

FOOTNOTE 15

Projects with a common area electrical room may have the conduit terminate anywhere within the electrical room.

Parking spots in a covered garage are deemed EV-Capable if the conduit terminates anywhere within the garage on that parking level.



FOOTNOTE

15

CERTIFICATION PROCESS

HOW TO REPORT



ENERGY STAR NextGen Certification Process

ekotrope My Projects ENERGY STAR NextGen Initial House Design... | Settings | Log out

General Info Envelope Fenestration Mechanical Water Lighting & Appliances Infiltration Onsite Generation Codes & Programs Usage ? Help

Code

- 2006 IECC Mandatory Checklist
- 2009 IECC Mandatory Checklist
- 2012 IECC Mandatory Checklist
- 2015 IECC Mandatory Checklist
- 2018 IECC Mandatory Checklist
- 2021 IECC Required Items
- IECC Slab-edge Insulation Exception
- 2021 IECC Window Exception (Elevation/Wind) Use Weather Station Elevation
- New York 2016 Mandatory Requirements
- New York 2020 Mandatory Requirements

ENERGY STAR

- Rater Design Review Checklist and Rater Field Checklist
- HVAC Design Report
- HVAC Commissioning Checklist (Optional)
- Water Management System Builder Requirements
- Basement SAF Exclusion
- Basement Area Excluded [ft²]

ENERGY STAR Certified Appliances (Optional)

Qualifying Refrigerators	<input type="text" value="1"/>
Qualifying Ceiling Fans	<input type="text" value="0"/>
Qualifying Exhaust Fans	<input type="text" value="0"/>
Qualifying Dishwashers	<input type="text" value="1"/>
Qualifying Clothes Washers	<input type="text" value="1"/>
Qualifying Clothes Dryers	<input type="text" value="0"/>

ENERGY STAR NextGen

NextGen Version

Rater Field Checklist

Other

- Indoor airPLUS Requirements
- EPA WaterSense Certification

DOE Zero Energy Ready Home Program

Builder ID #

Version 1

- High-Performance Windows
- Insulation
- Optimized Duct Location
- Water Efficiency
- ENERGY STAR Appliances
- Lighting – 80% LEDs
- ENERGY STAR Fans
- Renewable Ready - PV
- Override Basement SAF Exclusion
- Basement Area Excluded [ft²]

Version 2 (Single Family)

- High-Performance Windows
- Window Elevation Exception
- Passive Solar Design
- 2021 UA
- Optimized Duct Location
- Water Heating Efficiency
- ENERGY STAR Appliances
- ENERGY STAR Fans

Compliance Areas Energy Notes

Quick Results

HERS® Energy Rating Index: **33** 0 [Change](#)

Carbon Index: **33** 0

Annual Energy Bill **\$2,951** \$0

HERS !

ENERGY STAR v3.2 ✓

ENERGY STAR v3.1 ✓

ENERGY STAR NextGen v1.0 ✓

Tests compliance of the ENERGY STAR NextGen v1.0 National Program Requirements.

- ENERGY STAR NextGen Rater Field Checklist ✓
- ENERGY STAR Core Certification ✓
- ENERGY STAR Heat Pump ✓
- Blower Fan Airflow Grade ✓
- Blower Fan Watt Draw Grade ✓
- Refrigerant Charge Grade ✓
- ENERGY STAR Heat Pump Water Heater ✓
- Heat Pump Water Heater Tank Size ✓
- Electric Cooktop & Oven ✓

[Update](#) [Change codes](#)

[Cancel](#) [Save](#) [Save & Close](#)

[Rotate 45 Deg.](#) [Mirror E-W](#) [Mirror N-S](#) [Find Worst Orientation](#)



ENERGY STAR NextGen Certification Process

ekotrope My Projects ENERGY STAR NextGen Initial House Design... | Settings | Log out

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ENERGY STAR

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Qualifying Refrigerators	<input type="text" value="1"/>
Qualifying Ceiling Fans	<input type="text" value="0"/>
Qualifying Exhaust Fans	<input type="text" value="0"/>
Qualifying Dishwashers	<input type="text" value="1"/>
Qualifying Clothes Washers	<input type="text" value="1"/>
Qualifying Clothes Dryers	<input type="text" value="0"/>

ENERGY STAR NextGen

NextGen Version

Rater Field Checklist

Other

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Version 2 (Single Family)

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- Passive Solar Design
- 2021 UA
- Optimized Duct Location
- Water Heating Efficiency
- ENERGY STAR Appliances
- ENERGY STAR Fans

Quick Results

HERS® Energy Rating Index: **33** 0

Carbon Index: **33** 0

Annual Energy Bill **\$2,951** \$0

HERS

- ENERGY STAR v3.2
- ENERGY STAR v3.1
- ENERGY STAR NextGen v1.0

Tests compliance of the ENERGY STAR NextGen v1.0 National Program Requirements.

- ENERGY STAR NextGen Rater Field Checklist
- ENERGY STAR Core Certification
- ENERGY STAR Heat Pump
- Blower Fan Airflow Grade
- Blower Fan Watt Draw Grade
- Refrigerant Charge Grade
- ENERGY STAR Heat Pump Water Heater
- Heat Pump Water Heater Tank Size
- Electric Cooktop & Oven

Update Change codes


Cancel Save Save & Close

Rotate 45 Deg. Rotate 45 Deg. Mirror E-W Mirror N-S Find Worst Orientation



ENERGY STAR NextGen Certification Process





Meets U.S. EPA's requirements for energy efficiency and advanced electric technologies.

ENERGY STAR

Address:

1200 Pennsylvania Avenue NW
Washington, DC 20004

UNCONFIRMED

Built by:

EPA

Verified by:

Building Efficiency Resources

Oversight by:

RESNET

Date: Dec 19, 2023

Program/Version number: 1.0

Optional information:

Verified using Ekotrope (Version 4.2.0.3302)

Built for a Clean Energy Future





BUILT FOR A CLEAN ENERGY FUTURE

Builder/Developer: EPA

Permit Date/Number:

Home/Unit Address: 1200 Pennsylvania Avenue NW, Washington, DC 20004

Rating Company: Building Efficiency Resources

Rater ID Number: 3766919

Rating Date: 2023-10-19

Oversight By: RESNET

Program/Version Number: 1.0

NextGen Home Features

- Highly energy-efficient construction that meets ENERGY STAR's most rigorous requirements
- Multi-speed ENERGY STAR certified connected heat pump
- ENERGY STAR certified connected heat pump water heater
- Electric cooktop and oven
- Electric vehicle charging capability

UNCONFIRMED

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: 0.06 CFM50 / s.f. Shell Area

Primary Insulation Levels:

Ceiling: R-59	Floor: R-59
Wall: R-37	Slab: R-30

Primary Window Efficiency:

U-Value: 0.12 SHGC: 0.37

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 underneath slabs to reduce the potential for water entering the home or building.

Management of moisture levels in building materials during construction.

Heating, Cooling, and Ventilation System

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

Total Duct Leakage: 85 CFM @ 25Pa (Rough-In, 1 CFM @ 25Pa (0.05 / 100 ft²) with Air Handled)

Primary Heating (System Type • Fuel Type • Efficiency):

Air Source Heat Pump • Electric • 9.5 HSPF2

Primary Cooling (System Type • Fuel Type • Efficiency):

Air Source Heat Pump • Electric • 20 SEER2

Whole-House Ventilation Type (System Type):

Balanced

Energy Efficient Lighting and Appliances

Energy efficient products to help reduce utility bills, while providing high-quality performance.

Energy Efficient Lighting: 100%

ENERGY STAR Certified Appliances and Fans:

Refrigerators: 1	Dishwashers: 1
Ceiling Fans: 0	Exhaust Fans: 0

Primary Water Heater (System Type • Fuel Type • Efficiency):

Residential Water Heater • Electric • 3.75 UEF

About this certificate

The certificate provides a summary of the major energy efficiency and other construction features that contribute to this home or apartment earning the ENERGY STAR, as determined through independent inspection and verification performed by a trained professional. The Energy Rating Index or HERI index for this home, if reported, is calculated in accordance with ANSI/RESNET/ICC 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 insulation levels), the predominant value is shown. Also, homes and apartments may be certified to earn the ENERGY STAR using a sampling protocol, whereby one home or apartment is randomly selected from a set for representative inspections and testing. In such cases, the features found 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, but offer equivalent or better performance.



ENERGY STAR NextGen Certification Process

Report to HCO

Home Detail Printable View

Home Detail ID	Annual Avg. Number of Homes Certified	Commitments
	2	

Details **Home Reports** Deleted Home Reports

✓ Certified Homes Reports

Homes Reports Archive - Past Reporting Periods

Select Reporting Period: 09/30/2023 Select Period Submit Refresh Export Group Match Filter

To view instructions on exports, group match, and filters, [click here](#).

The table below displays ENERGY STAR and Indoor airPLUS certified homes and apartments registered in a Home Certification Organization (HCO) source system (e.g., Rating Registry) during the quarter ending on 09/30/2023 and attributed to your organization. Use the "Select Reporting Period" dropdown to access reports from different periods. [Additional Reporting Information](#)

Showing 100 out of 225 records, representing 610 ENERGY STAR certified homes reported for Quarter Ending Date 09/30/2023.

<input type="checkbox"/>	Qtr End Date	Pro...	Buil...	Rater	Rating T...	H	C	State	# ES	# NextGen	# IAP	Matching Sta...	V
<input type="checkbox"/>	2023-09-30				ERI - Individ...	Sing...	For...	OR	4	1	0	Match	V
<input type="checkbox"/>	2023-09-30				ERI - Individ...	Sing...	Hap...	OR	1	0	0	Match	V
<input type="checkbox"/>	2023-09-30				ERI - Individ...	Sing...	Can...	OR	6	0	0	Match	V



ENERGY STAR NextGen

Certification Process



ONLINE PARTNERSHIP AGREEMENT

Home Builders and Developers

[Contact ENERGY STAR](#) | [Exit Application](#)

OMB Control Number: 2060-0586

OMB Expiration Date: 1-31-2024

Your Organization

Your Partnership

Verification Org.

Contacts

Review

Sign and Submit

Next Steps

About Your Organization

To get started, please enter the information below.

* Organization Name

* State

Please Select..

Continue

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2060-0586). Responses to this collection of information are voluntary. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and record keeping burden for this collection of information is estimated to be 0.33-0.41 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden including through the use of automated collection techniques to the Director, Regulatory Support Division, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

EPA Form Number: 5900-188



Thank You!

- Learn more at:
www.energystar.gov/NextGenHomes