NextGen™ CERTIFIED HOMES & APARTMENTS

BUILT FOR A CLEAN ENERGY FUTURE

Just Launched: ENERGY STAR NextGen New Homes & Apartments

Partner Meeting Webinar Series

December 12, 2023

Introduction

- Reducing emissions in residential construction requires us to expand beyond energy efficiency to also include:
  - Strategic electrification
  - Connected equipment to aid in demand response
  - Supporting EV-charging

- EPA's goal: to coalesce the industry around the primary features needed to reduce operational decarbonization

- ENERGY STAR NextGen is NOT intended to replace core ENERGY STAR program, nor DOE's Zero Energy Ready homes

ENERGY STAR NextGen Certified Homes and Apartments

1. Highly energy-efficient construction
2. Multi-stage ENERGY STAR certified connected heat pump
3. ENERGY STAR certified connected heat pump water heater
4. Clean electric cooking
5. Electric vehicle charging capability

ENERGY STAR NextGen™ CERTIFIED HOMES & APARTMENTS
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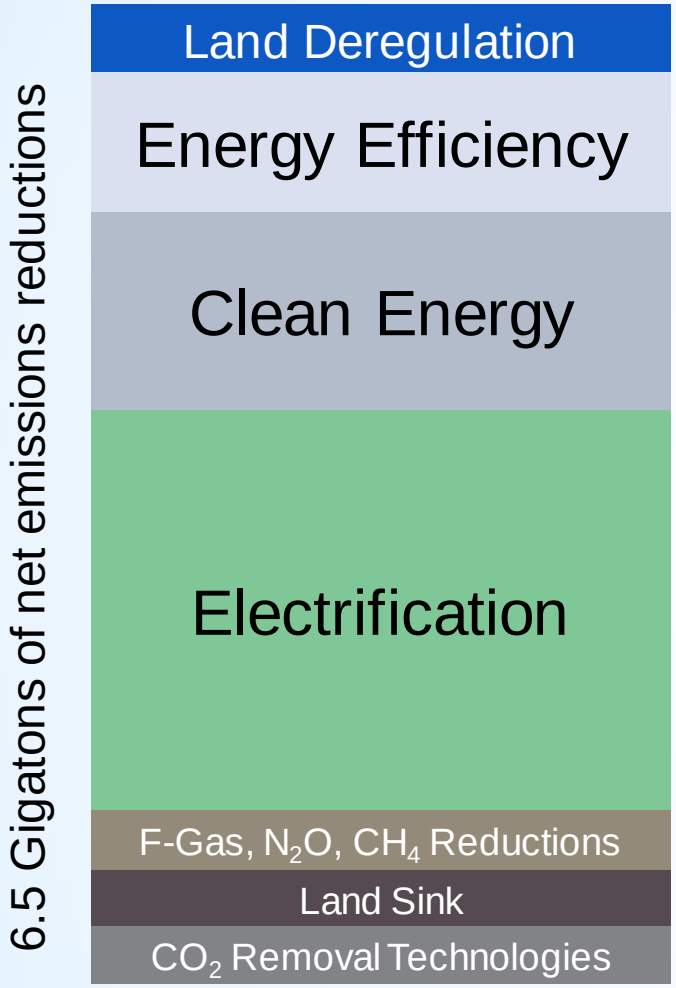
The Path to Decarbonization



U.S. Decarbonization Strategy

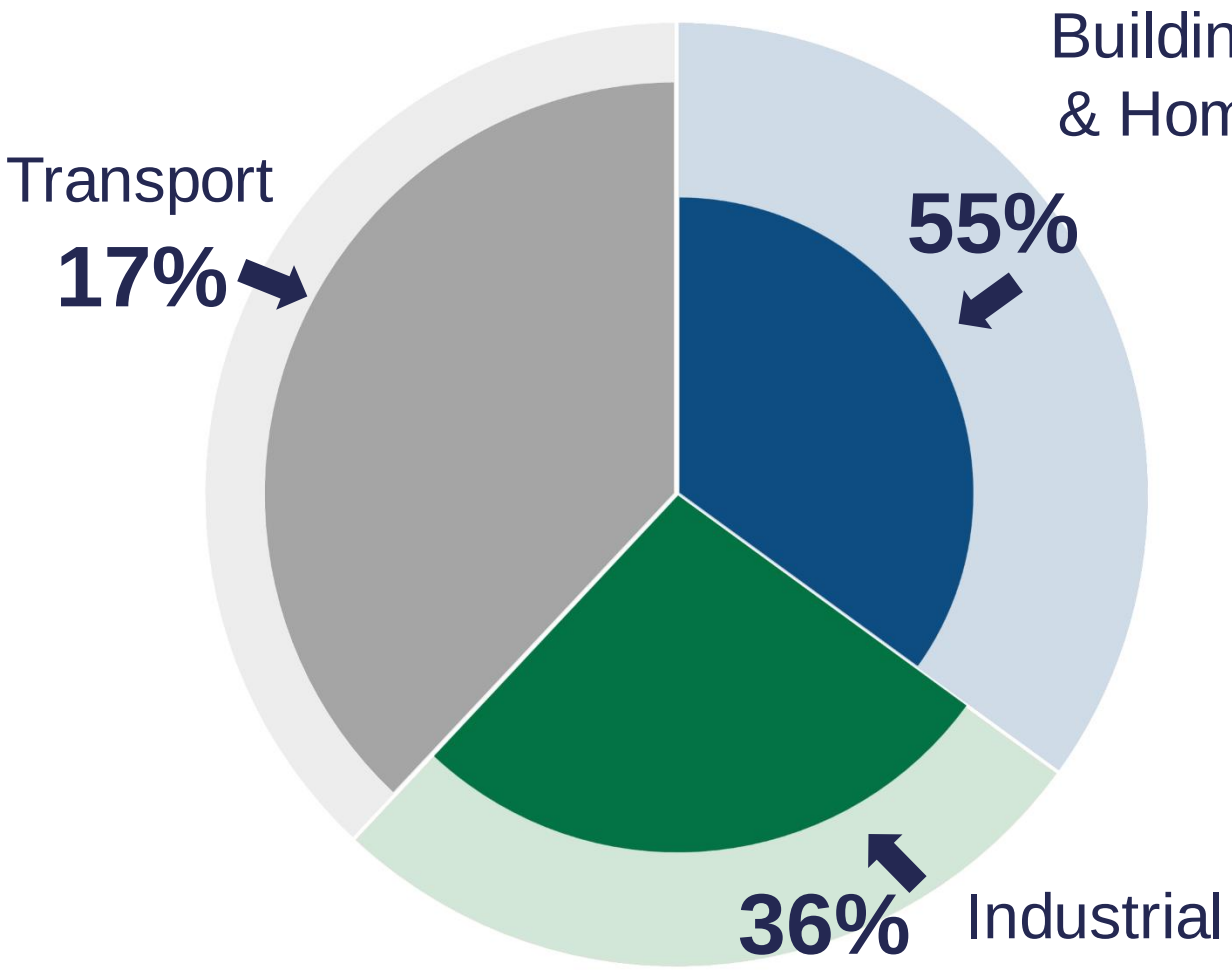
Energy Efficiency: ENERGY STAR has a 30+ year track record.

Clean Energy: EPA's Green Power Partnership is helping to drive demand.

Electrification: EPA will be guiding people to do it right (by prioritizing efficiency).

Source: The Long-Term Strategy of the United States

The Source of Emissions Reductions



Emissions-reduction potential by fossil-fuel combustion end-use (below 2005 levels in 2030)

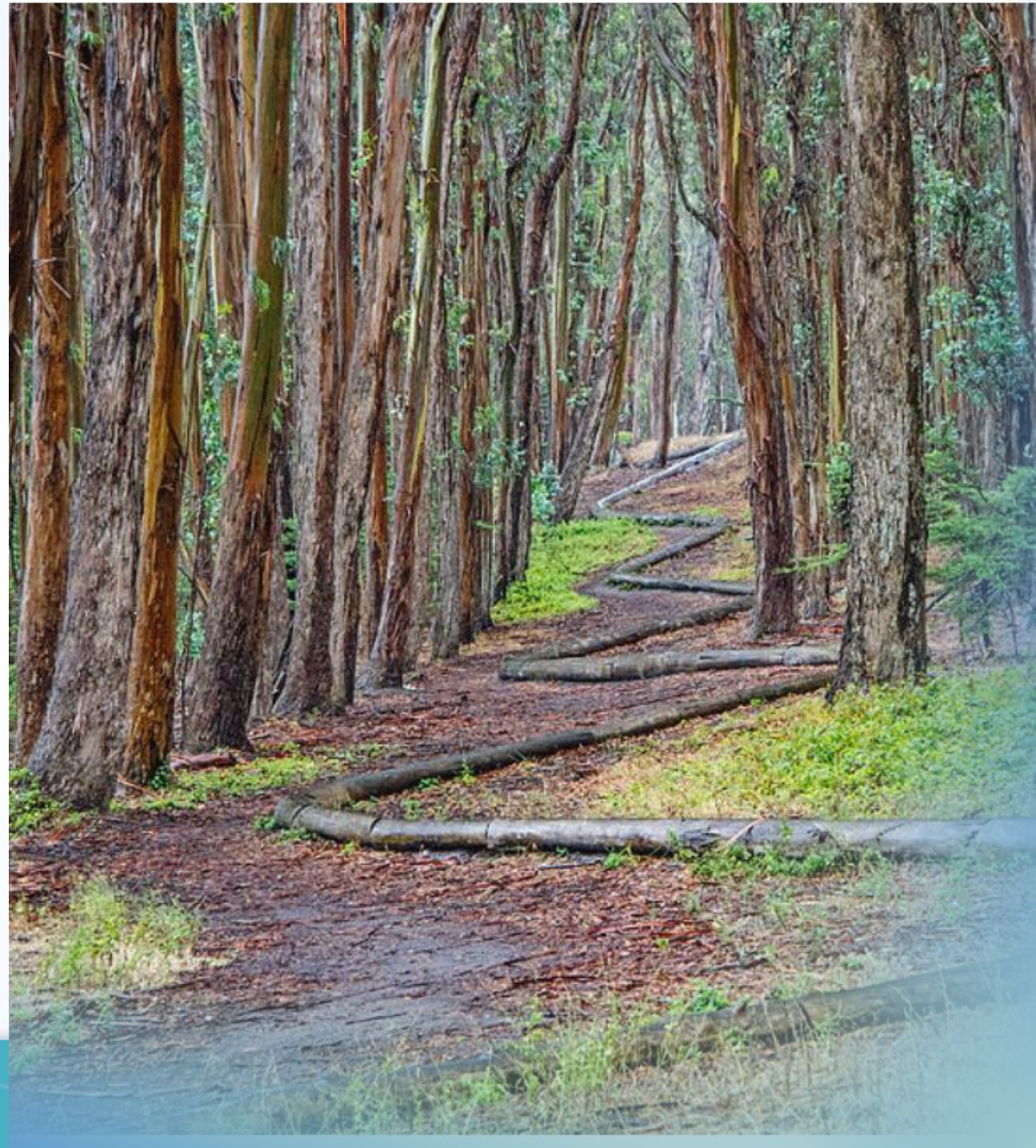
Buildings and homes account for 1/3 of U.S. greenhouse gas emissions…

…and will be the greatest source of emissions reductions (and enable the grid of the future).

Source: Electric Sector Emissions Impacts of the Inflation Reduction Act, US EPA, September 2023

Agenda

- ✓ Introduction and overview
- Emissions and utility cost analysis
- Overview of Program Requirements
- Sample Collateral



Builder Value Proposition

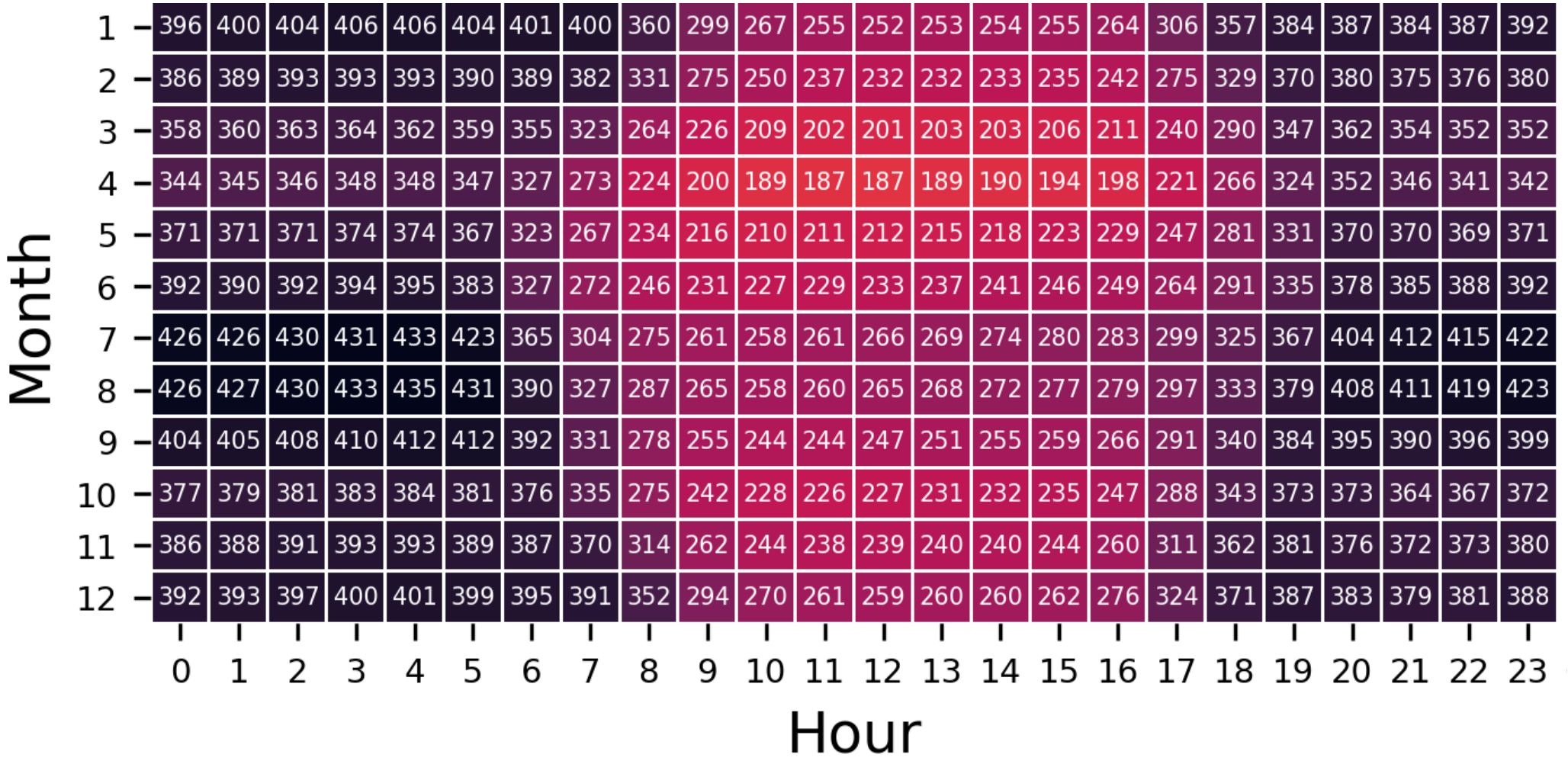
1. Benefits that can attract customers
   - Indoor air quality improvements
   - Environmental benefits
   - Cutting edge technologies

2. Simplified construction process if not installing gas utility infrastructure

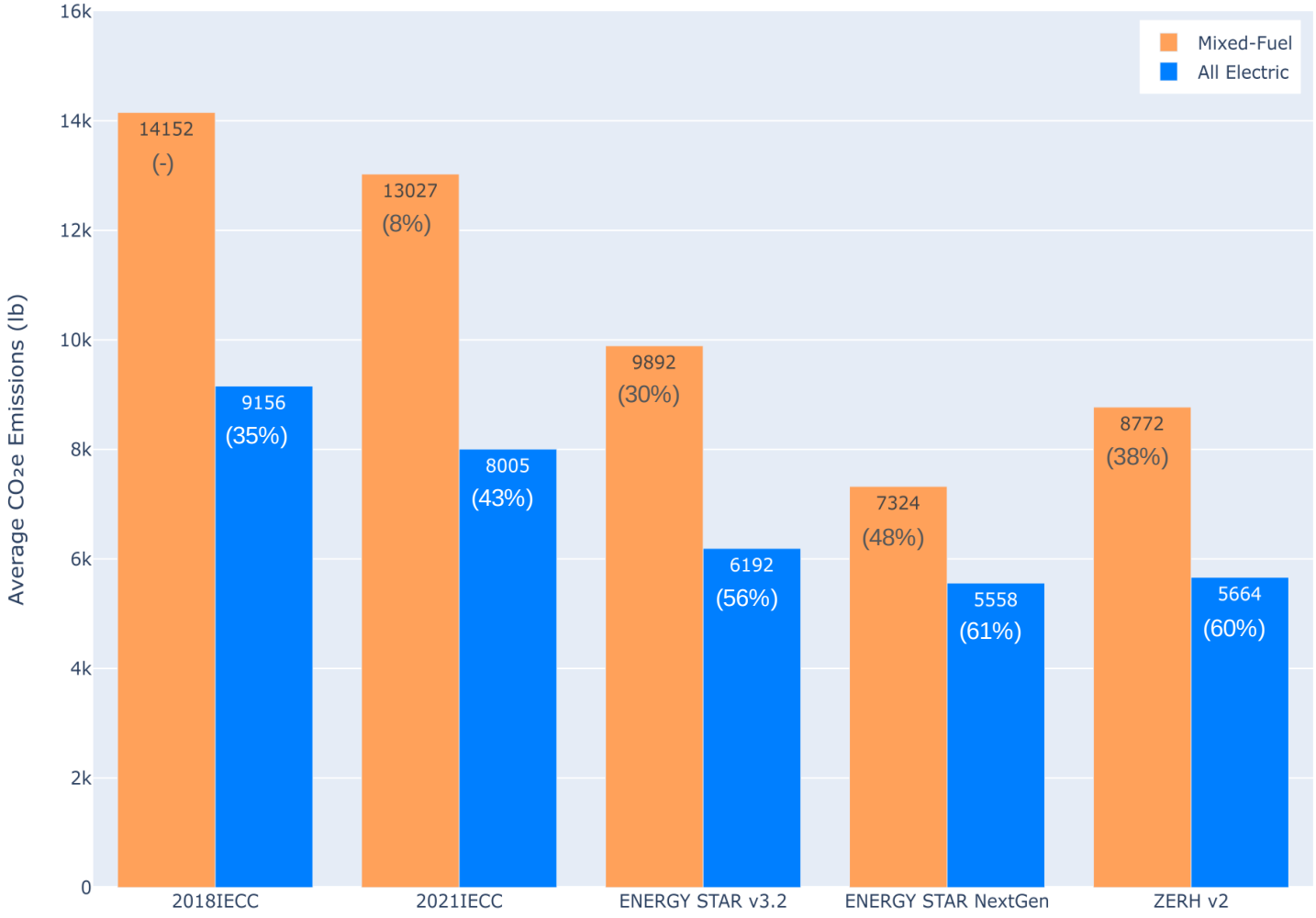
3. Prepare for the future / get rewarded for staying ahead of codes
   - ESG reporting of emissions savings
   - Utility incentives
   - 45L
   - HEERA (Home Efficiency and Home Electrification and Appliance Rebates)

Emissions and Utility Cost Impacts

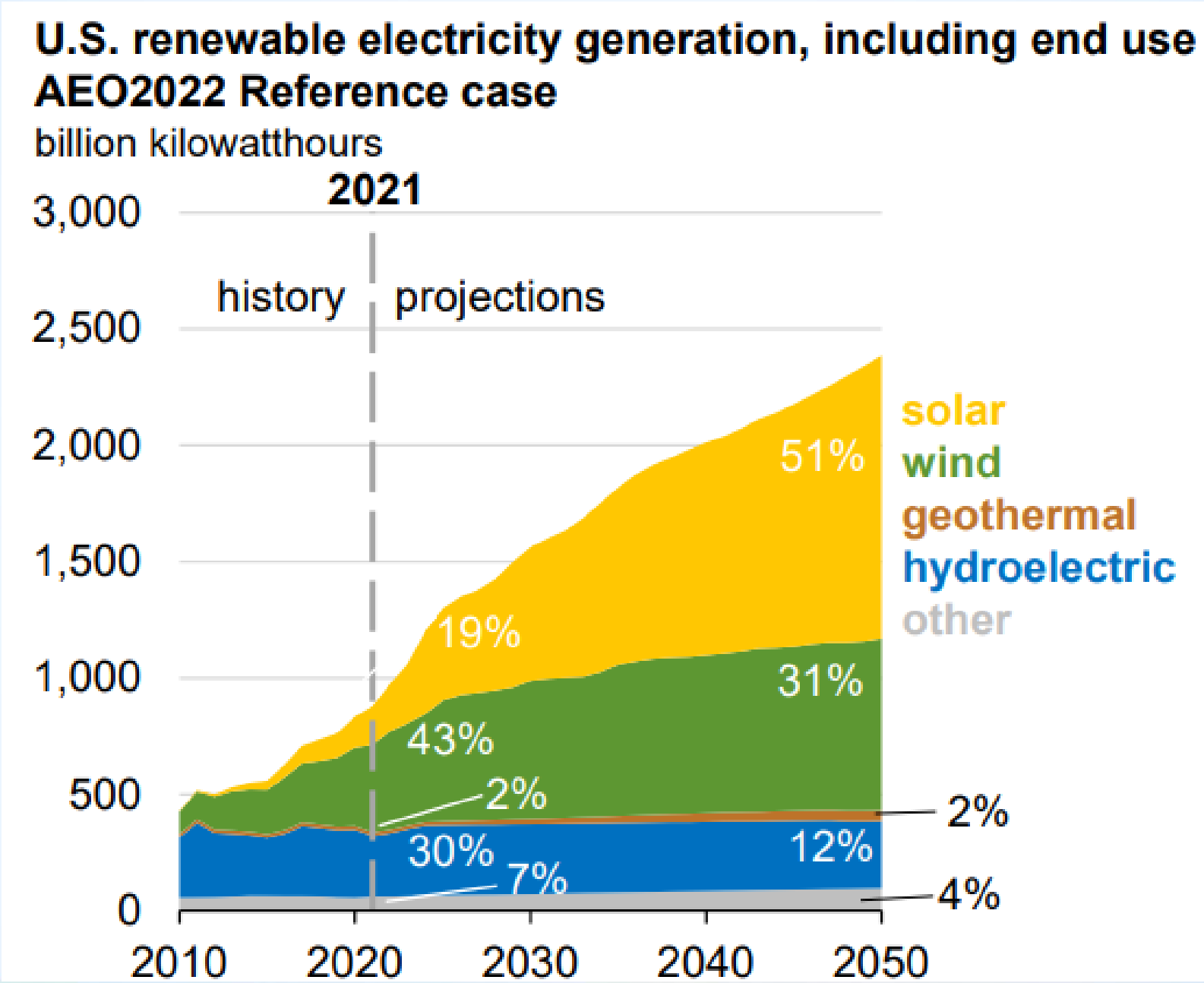
National Average CO_2e Emissions Impact



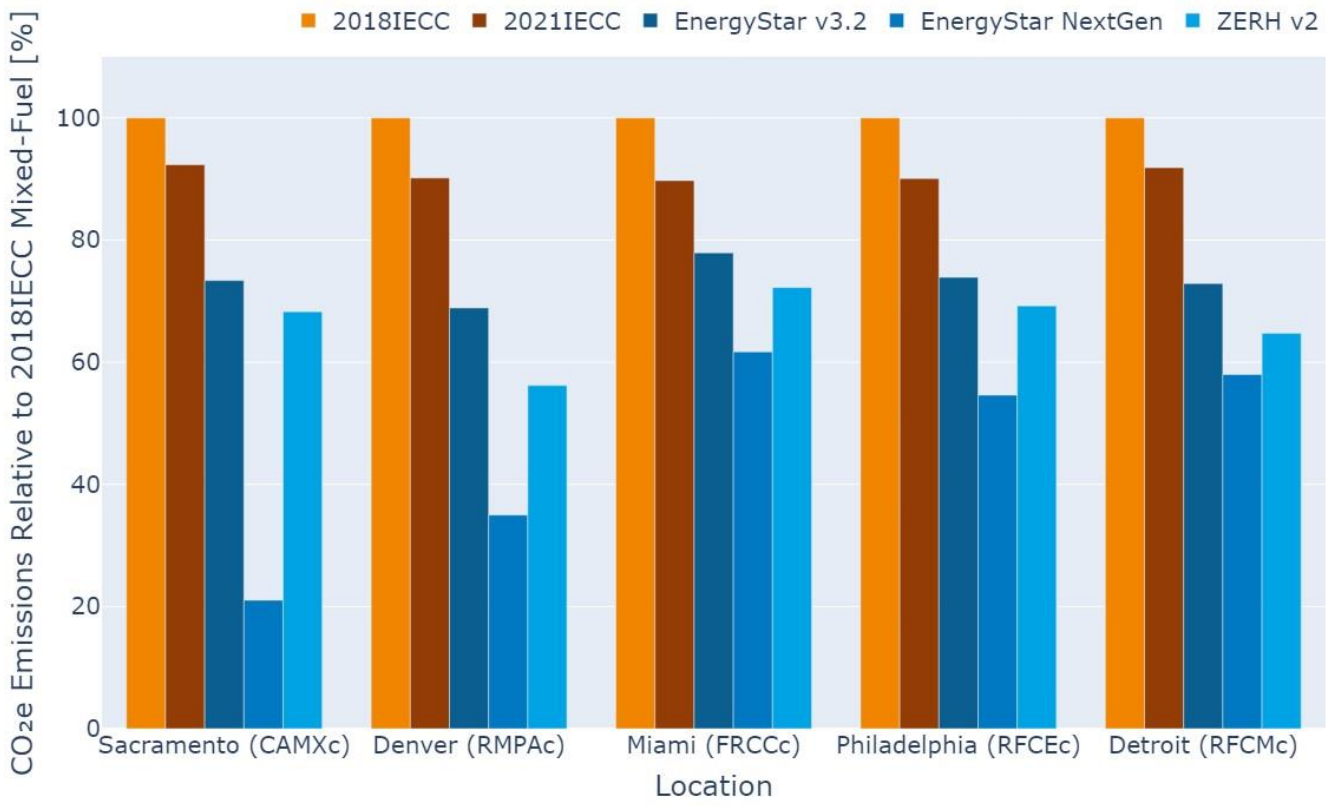
National Average CO_2e Emissions Impact



- Replacing gas equipment with heat pumps reduces emissions by at least 35%
- Homes built to above-code labeling programs level further reduce CO_2e emissions
- Efficiency + Electrification = Greatest Reductions
- ENERGY STAR NextGen sees most significant emissions reductions


U.S. renewable electricity generation, including end use
AEO2022 Reference case
billion kilowatthours
2021
history
projections
3,000
2,500
2,000
1,500
1,000
500
0
2010
2020
2030
2040
2050
solar
wind
geothermal
hydroelectric
other
51%
19%
31%
43%
2%
2%
30%
12%
7%
4%

Regional Emissions Impact for Mixed-Fuel New Homes



Low Elec Emission Rate → **High** Elec Emission Rate

- Emissions reductions are higher in locations with cleaner grids, and where heating loads are higher
- ENERGY STAR NextGen, the reductions are the largest at 40 - 80%.
  - ENERGY STAR NextGen homes also demonstrate greater sensitivity to the regional electric grid's emissions rate because of the higher electricity consumption.

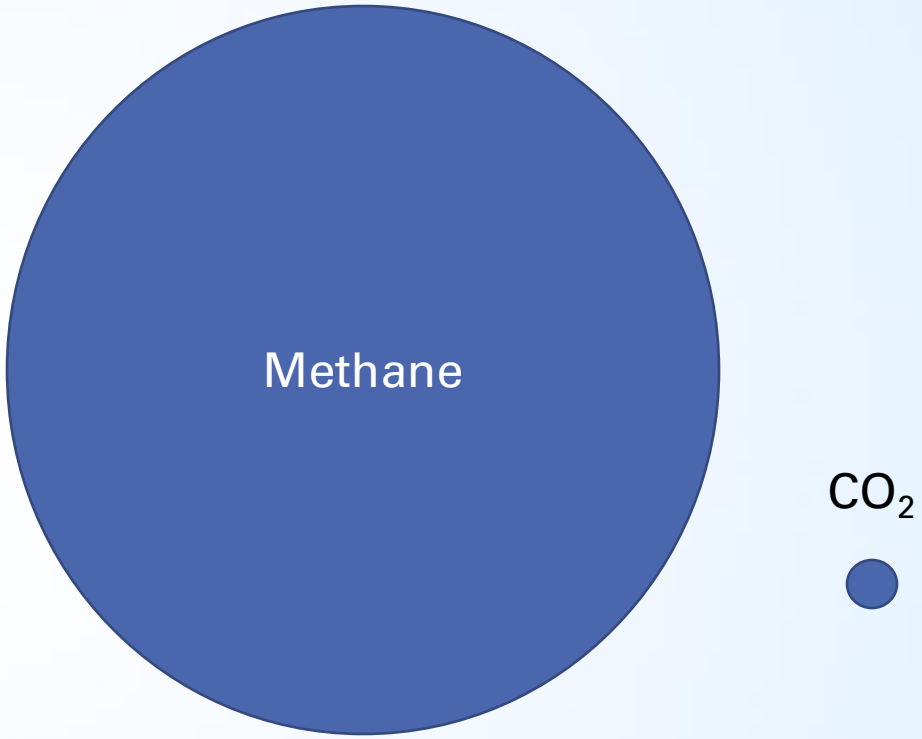
Methane

86x

more potent

than CO_2 over

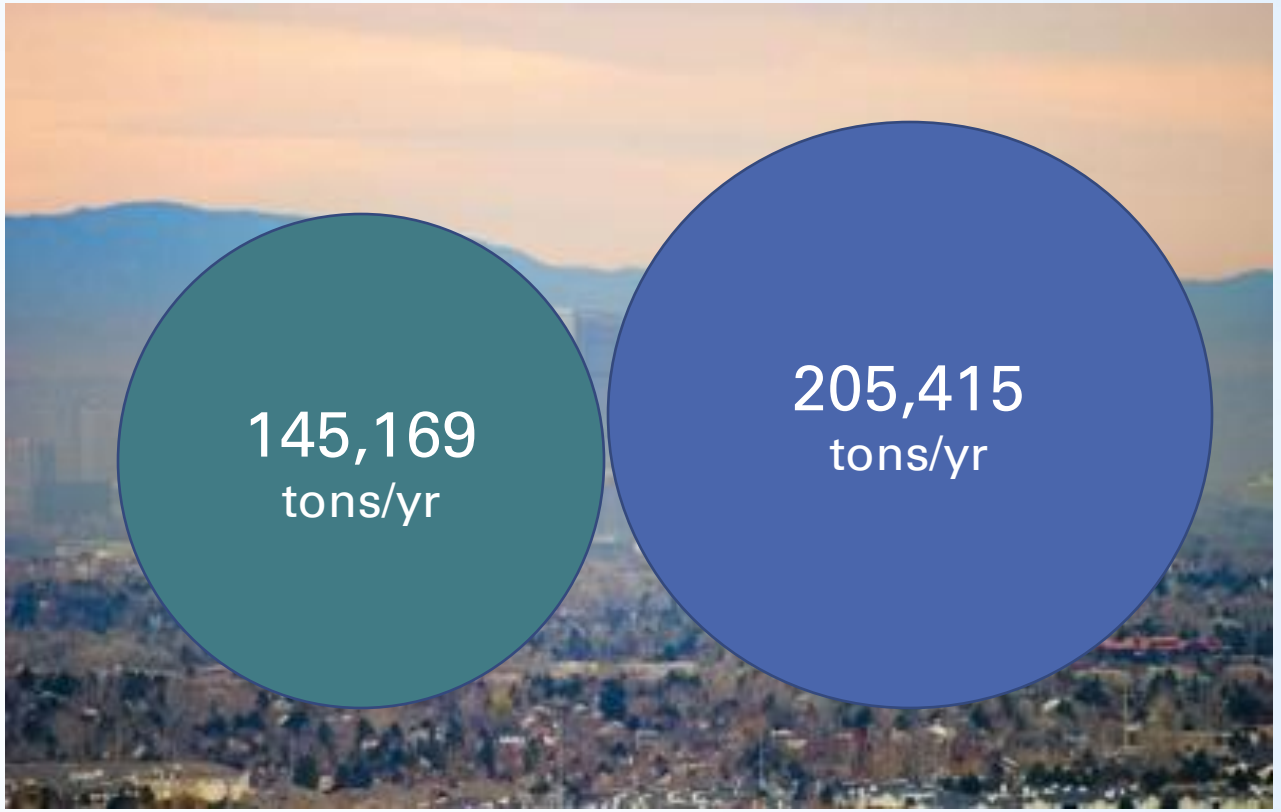
a 20-year period



Nitrogen Oxides

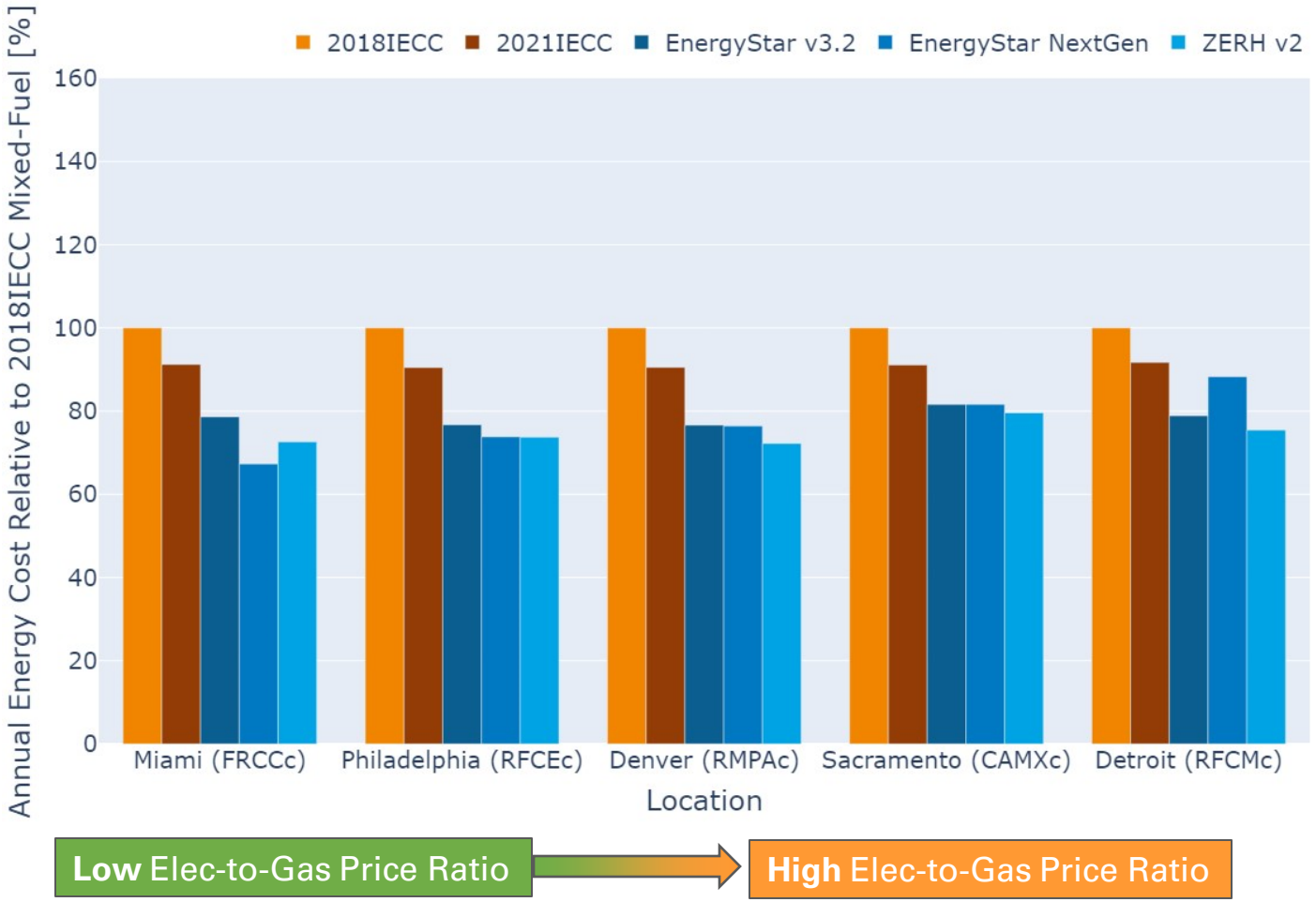
Residential gas appliances emit more Nitrogen Oxides pollution than gas power plants, despite using less gas

Source: 2017 EPA National Emissions Inventory



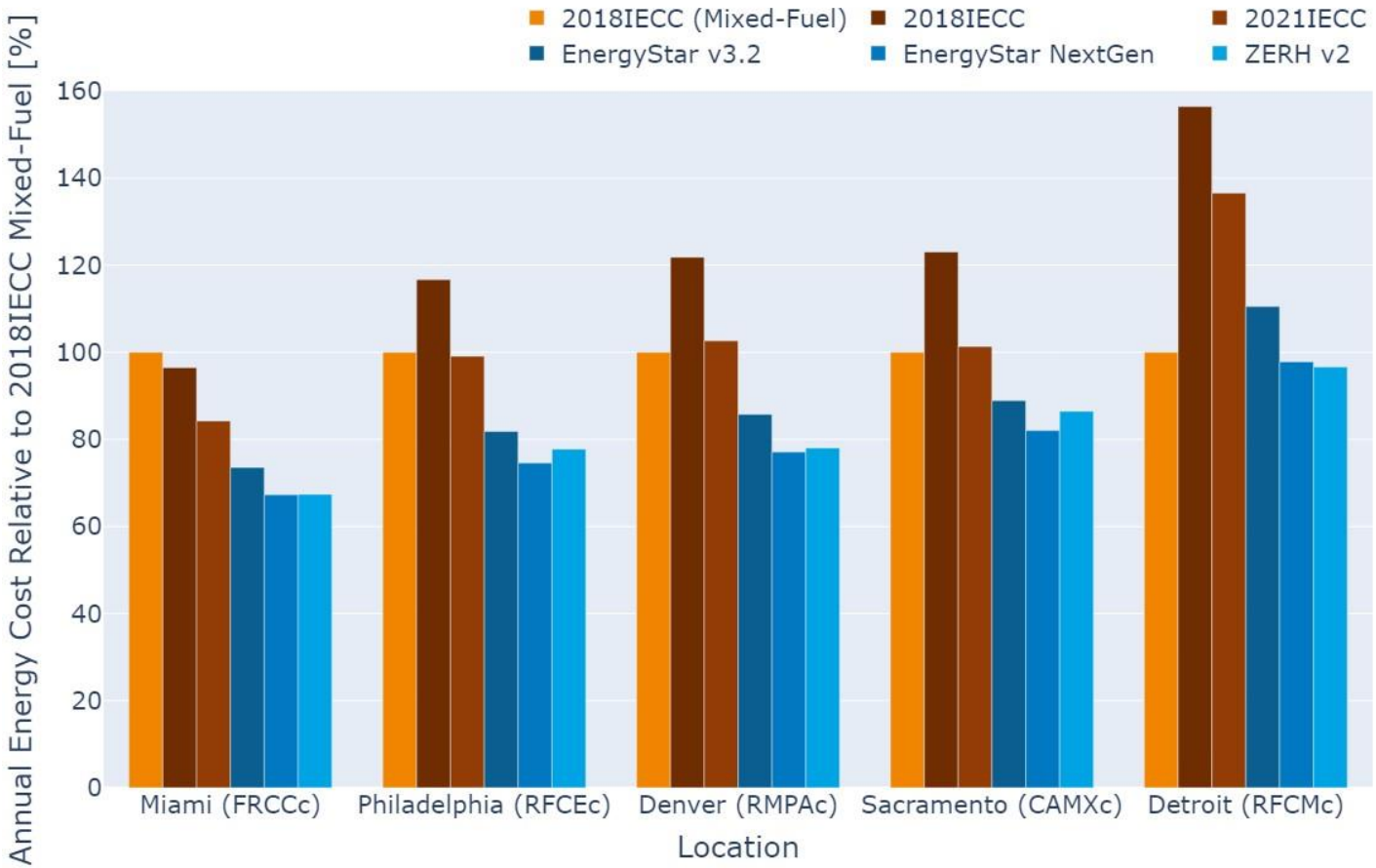
Gas power plants Residential gas appliances

Regional Utility Cost Impact for Mixed-Fuel New Homes



- Homes built to more stringent code or labeling programs achieve higher annual energy cost savings.
- 2021 IECC homes can lower utility costs by about 14% on average.
- Above-code labeling programs can lower utility costs by 13 – 38%.

Regional Utility Cost Impact for Electric New Homes



Low Elec-to-Gas Price Ratio → **High** Elec-to-Gas Price Ratio

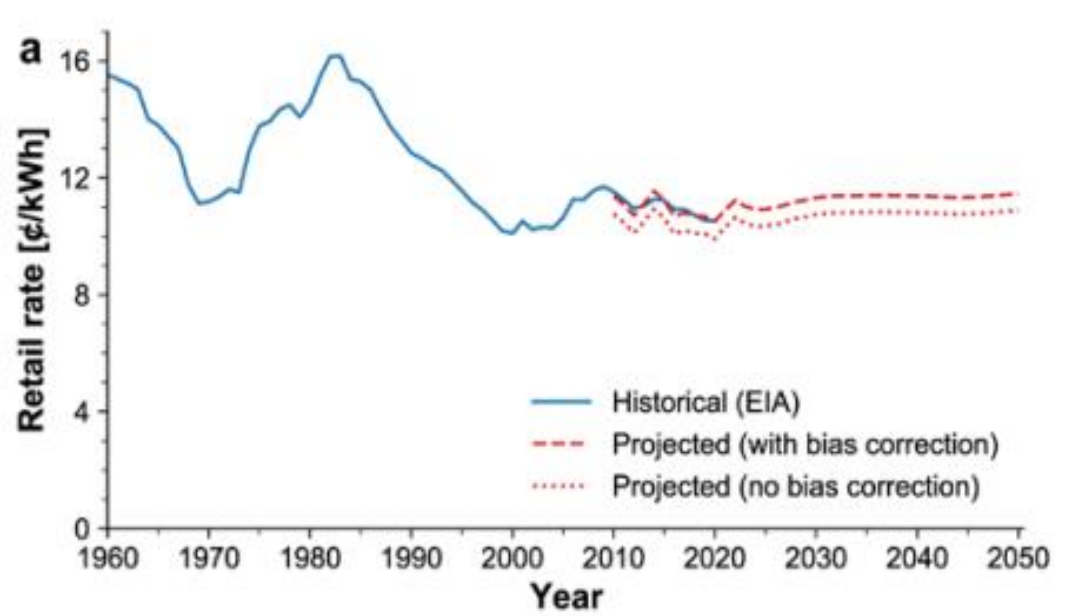
Relative annual energy costs are generally higher in locations with a high electricity-to-gas price ratio.

Electrification without improving the building's envelope and/or HVAC efficiency can lead to higher annual whole-house energy costs.

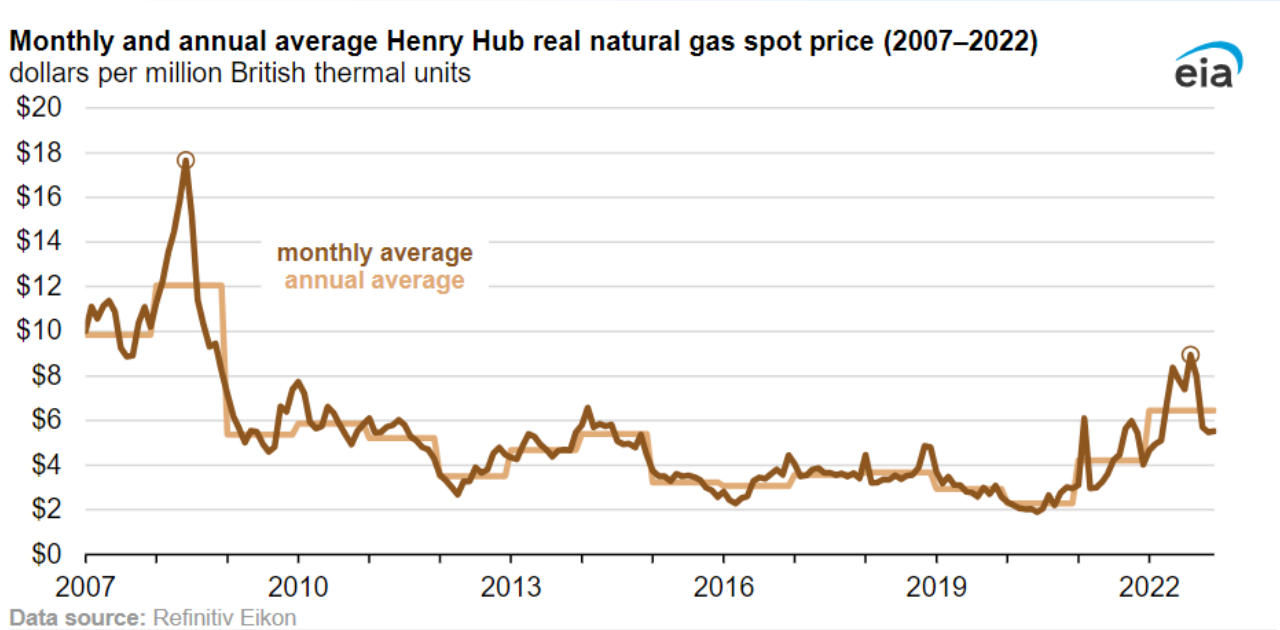
- In Detroit, the annual energy cost of electric homes built to 2018/2021 IECC and ENERGY STAR v3.2 level has increased relative to 2018 IECC mixed-fuel home.

Take the Energy Cost Comparison with a grain of salt

Electricity price forecast

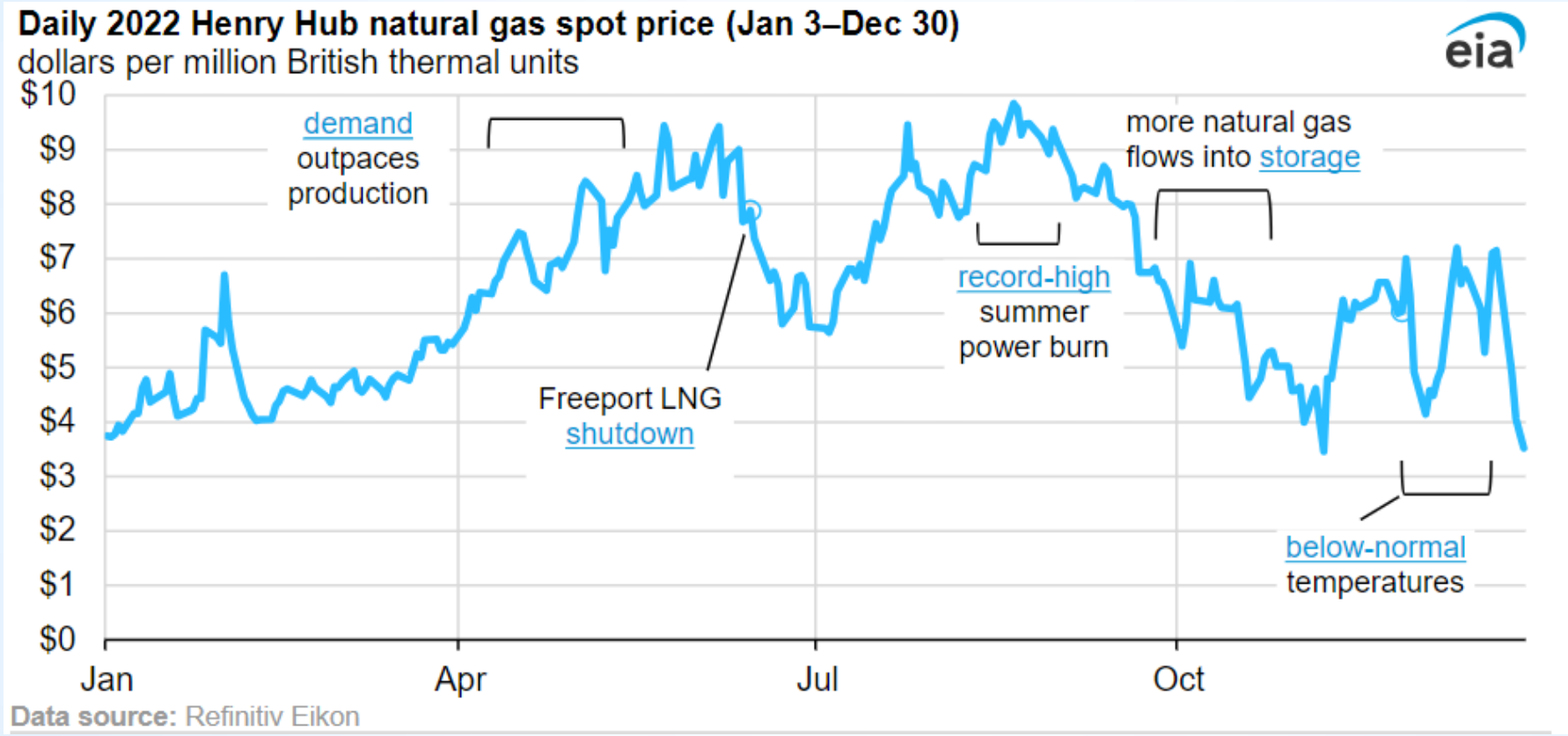


Historic gas prices



Source: Retail Rate Projections for Long-Term Electricity System Models

Take the Energy Cost Comparison with a grain of salt

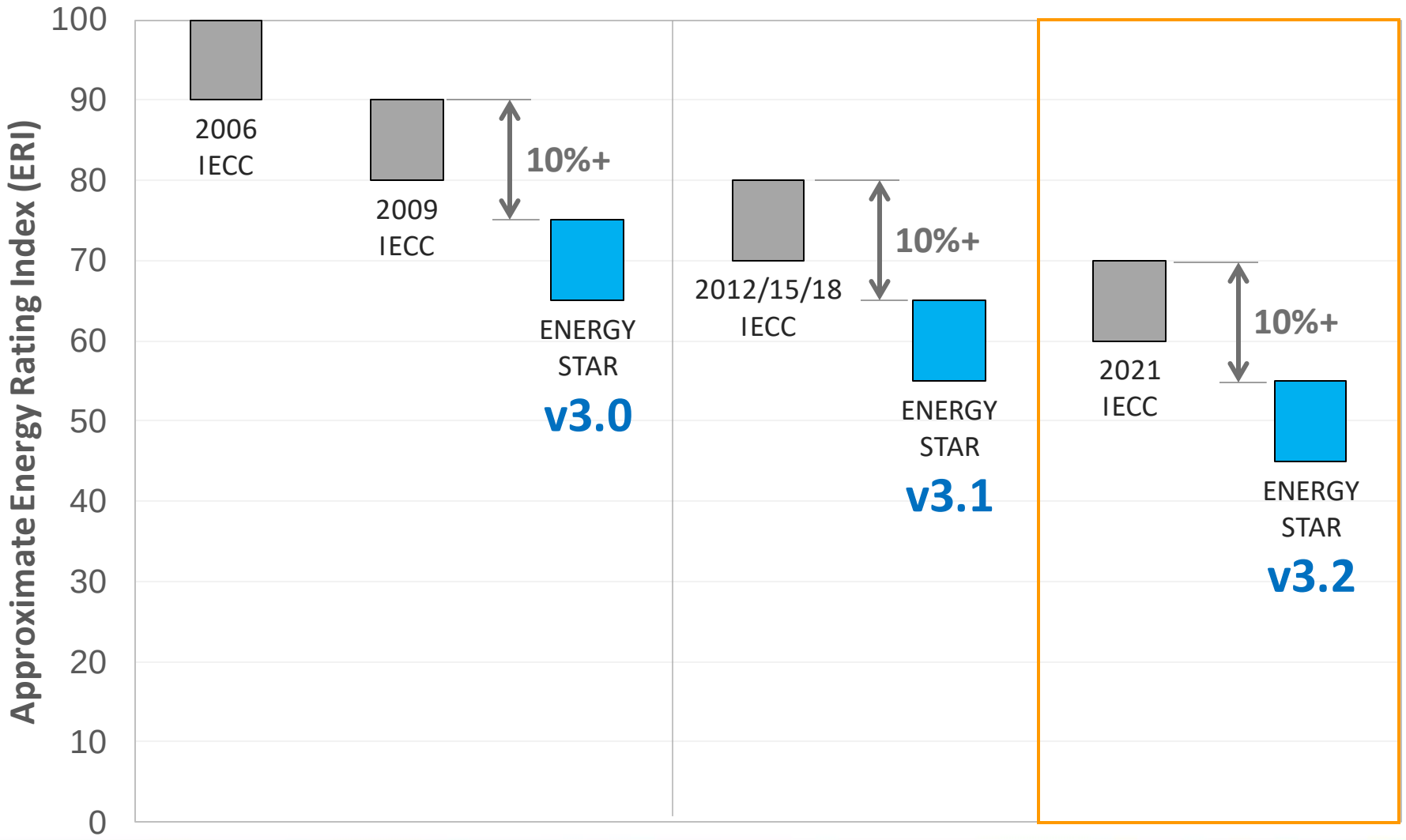


Overview of Program Requirements

1. Energy Efficiency Prerequisite

- Home or building certified to the most rigorous ENERGY STAR New Construction program requirements
  - National v3.2/Multifamily v1.2
  - This requirement would also apply in states that would not otherwise be subject to these versions of the program requirements due to code adoption

Modern code evolution



2. ENERGY STAR Certified Multi-Speed Heat Pumps

- ENERGY STAR certified two-speed or variable-speed heat pump installed that serves the design load of each heated zone
  - Each heat pump must also meet EPA's 'connected' criteria or is controlled by a wifi or ENERGY STAR certified smart thermostat
  - In Climate Zones 5-8, installed heat pumps are ENERGY STAR Cold Climate certified
  - For air-source heat pumps, blower fan volumetric airflow, blower fan watt draw, and refrigerant charge are Grade I per ANSI / RESNET / ACCA Std. 310

2. ENERGY STAR Certified Multi-Speed Heat Pumps

ENERGY STAR NextGen homes and apartments allow you to take control of your comfort with a quiet and responsive heating and cooling system

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Cold Climate Heat Pump Case Studies

"I live on the top of a mountain in Waterford, Maine, where it gets pretty windy. That's not a challenge for my heat pumps, which during the February cold snap kept me warm without backup even during -49 °F wind chill! I'm also saving around $300 a month using heat pumps instead of propane."

Frank D., Waterford, ME

"I've saved thousands of dollars by heating my entire home with two heat pumps. I've kept my oil-burning furnace as backup, but it rarely gets used. In fact, I haven't had an oil delivery since the fall of 2021."

Paul N., Van Buren, ME

HVAC grading update

The Five Key Sequential Tasks in Standard 310

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

HVAC grading makes it easier to certify ENERGY STAR homes and apartments:

- Integrates most ENERGY STAR HVAC requirements into an ERI rating
- Does not require a credentialed HVAC contractor
- Eliminates the HVAC Commissioning Checklist
- Rewards proper installation with ERI points and helps meet the 45L tax credit

3. ENERGY STAR Certified Heat Pump Water Heaters

- ENERGY STAR certified heat pump water heater that meets EPA's 'connected' criteria

- Each heat pump water heater is 208/240 volts, with minimum tank capacity as follows:

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

- Each heat pump water heater located within occupiable space has a sone rating ≤ 55 dBA


DANGER
CONSTRUCTION AREA
KEEP OUT


DANGER
CONSTRUCTION AREA
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4. Electric Cooking

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

"Optional induction cooktops have precise temperature control, boil water quickly, and have cooktop surfaces that remain cool to the touch, making them easier to clean."

Cooking Pollutants 101

1. All cooking emits unhealthy particulates (PM2.5)
2. Cooking with gas also emits combustion pollutants (NO_2 & CO) at elevated and hazardous levels
3. Vented range hoods can remove a significant portion of all cooking-related contaminants.
    - Many people don't use range hoods because they think they are not needed.
4. Gas piping can also emit methane and benzene into homes, regardless of appliance use
5. Shifting from gas to electric eliminates combustion byproducts such as NO_2 and CO, and reduces ultrafine particles, but does not affect pollutants from cooking itself (PM2.5).
6. Filtration via central forced air or portable air cleaners can remove PM2.5 (from cooking), but not NO_2 or CO (from gas).

NO_2 Pollutant Levels

There is no regulation of indoor air quality

Our best approximation for exposure limits is using EPA's National Ambient Air Quality Standards

NAAQS 1-hour exposure of NO_2 of 100 ppb, not to be exceeded more than once a year

An LBNL study estimates that 38-64% of homes in SoCal exceed this level at least once per week using a single cooktop (without a range hood)

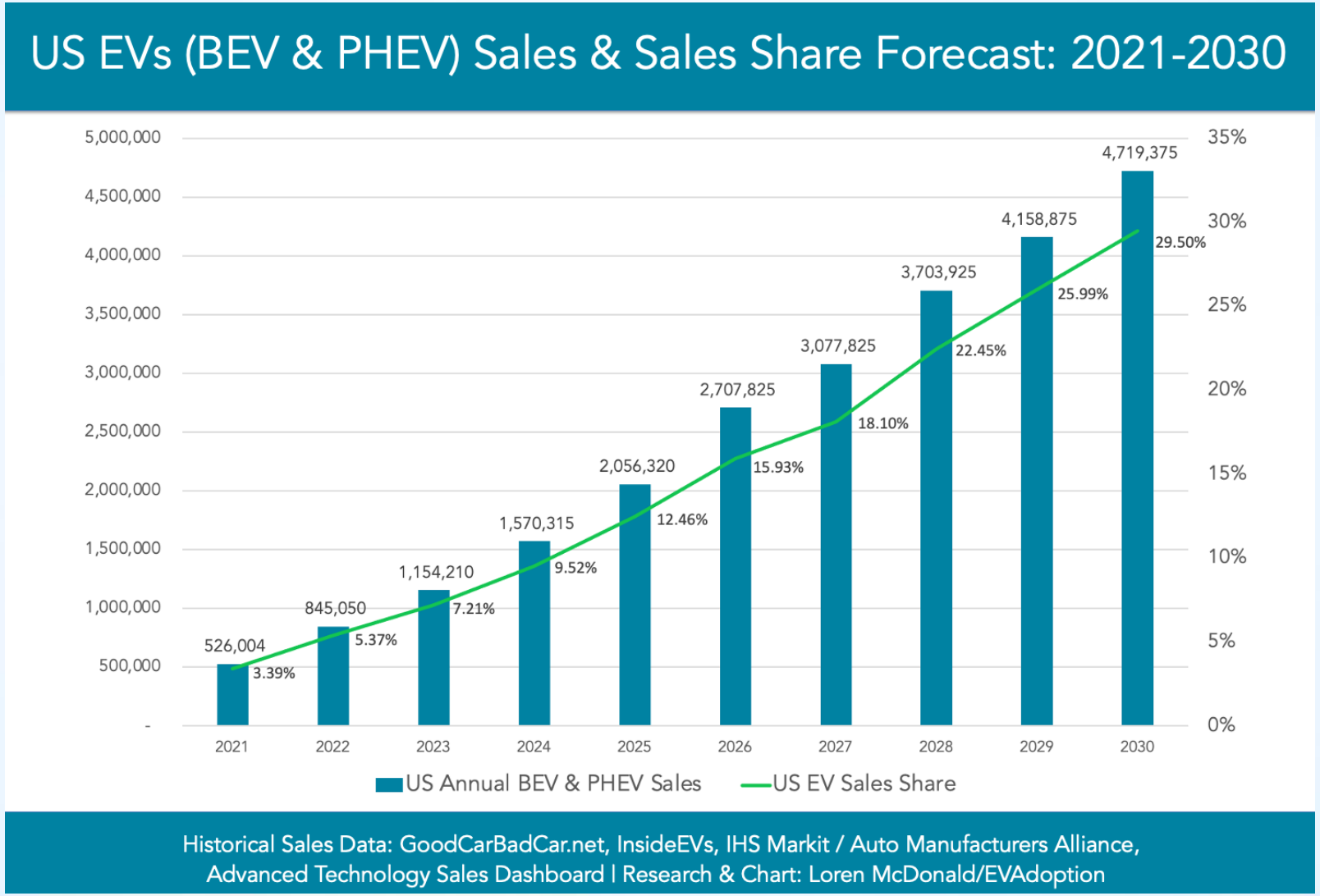
Number drops to 9-24% of homes with range hood use

4. Induction/Electric Cooking

Electric cooktops and ovens eliminate the emissions of indoor air pollutants associated with gas combustion, including carbon monoxide and nitrogen dioxide, and contribute to a healthier indoor living environment.

> Children living in homes with gas stoves have a 42% increased risk of having asthma, according to a meta-analysis of 19 studies.[1]

5. Electric Vehicle Charging Capability



5. Electric Vehicle Charging Capability

- For one- and two-family dwellings with dedicated parking:
  - **EV-Ready:** One parking space is provided per dwelling unit that includes *all* the items below.
    - A powered 208/240 receptacle is installed in garage or within 3 feet of driveway or dedicated parking space
    - The electric service panel includes a 40-amp **(or greater)** breaker and panel directory identifies the branch circuit as "Electric vehicle charging"

5. Electric Vehicle Charging Capability

- For all other dwellings, comply with either EV-Ready or both of the below:
  - **EV Charger:** Install (at a minimum) the following number of ENERGY STAR certified EV-Chargers that meet EPA's 'connected' criteria as follows:

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

  - **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

5. Electric Vehicle Charging Capability

In homes with private parking, a heavy-duty power outlet is wired in and ready to charge an electric vehicle

Even if you don't have an EV today, having the necessary wiring installed or access to a charger will make it quicker, easier, and less expensive to go electric if you're ready to make the change in the future.

DOE's Zero Energy Ready Homes

Overlapping DOE ZERH v2 Requirements

- ✓ ENERGY STAR v3.2
- Heat Pump Space Heater Ready
- Heat Pump Water Heater Ready
- ✓ Electric Vehicle Ready
- (Nothing on electric cooking)

Sample Collateral

NextGen CERTIFIED HOMES & APARTMENTS
BUILT FOR A CLEAN ENERGY FUTURE

A home for tomorrow, built today.

The ENERGY STAR® NextGen program offers an additional level of recognition for homes and apartments that go above and beyond the core ENERGY STAR Residential New Construction program requirements and incorporate advanced electric technologies that will help to build our clean energy future.

Advanced technologies, with high performance, premium features.

ENERGY STAR NextGen homes and apartments deliver all the comfort, quality, and durability that homeowners and residents have come to expect from the ENERGY STAR label—and so much more. These homes come with leading-edge equipment, such as:

- **Multi-speed ENERGY STAR certified heat pumps**: More efficient than furnaces or boilers, heat pumps serve double duty with heating and cooling, making them usable year-round.
- **ENERGY STAR certified heat pump water heaters**: Heat pump water heaters that earn the ENERGY STAR label are up to four times more efficient, and use 70 percent less energy, than a standard model.
- **Electric cooktops and ovens**: Electric cooktops and ovens eliminate the emissions of indoor air pollutants associated with gas combustion, including carbon monoxide and nitrogen dioxide, and contribute to a healthier indoor living environment.
- **Electric vehicle (EV) charging capability**: In homes with private parking, a heavy-duty power outlet is wired in and ready to charge an electric vehicle or have a Level 2 EV charger installed.

Creating a clean energy future for everyone.

EPA United States Environmental Protection Agency

Learn more about ENERGY STAR NextGen homes and apartments at **energystar.gov/nextgenhomes**.

NextGen homes feature advanced efficient electric technologies that provide high performance and premium experiences, along with improved indoor air quality and up to 20 percent more energy efficiency than homes built to typical code levels.

Built with energy-efficient construction.

ENERGY STAR NextGen homes and apartments meet the U.S. Environmental Protection Agency's (EPA) most advanced ENERGY STAR program requirements for energy efficiency and performance and are at least 20 percent more energy-efficient than homes built to typical code levels, delivering comfort and savings you can count on.

Creating a healthier, safer indoor living environment.

The advanced electric and hybrid equipment found in ENERGY STAR NextGen homes and apartments can reduce or eliminate emissions associated with natural gas combustion and contribute to reduced indoor air pollutants.

Built on the trusted foundation of EPA's ENERGY STAR program.

ENERGY STAR NextGen homes and apartments are built on EPA's 25+ year history of delivering energy savings and environmental benefits through the ENERGY STAR program.

Using less fossil fuel to operate helps ENERGY STAR NextGen homes and apartments make a big impact, reducing greenhouse gas emissions by up to 80 percent when compared to homes built to the latest code.

NextGen CERTIFIED HOMES & APARTMENTS

Built for a clean energy future.

Choosing an ENERGY STAR NextGen home helps to create a clean energy future for everyone and provides an important step toward reducing carbon pollution while providing energy savings, greater comfort, and advanced features. Learn more at **energystar.gov/nextgenhomes**.

EPA United States Environmental Protection Agency

ESNextGen 08/01/23

The right choice, for today and tomorrow.

The ENERGY STAR® NextGen program offers an additional level of recognition for homes and apartments that go above and beyond the core ENERGY STAR Residential New Construction program requirements and incorporate advanced electric technologies that will help to build our clean energy future.

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EPA United States Environmental Protection Agency

ESNextGen08/09/23

NextGen CERTIFIED HOMES & APARTMENTS
BUILT FOR A CLEAN ENERGY FUTURE

A home for tomorrow, built today.

EPA United States Environmental Protection Agency

Modern efficient electric and hybrid technologies, along with energy-efficient construction, provide the premium home features you want while delivering high performance, comfort, and enhanced health and safety benefits.

Multi-speed ENERGY STAR® certified heat pumps

- More efficient than furnaces or boilers, heat pumps serve double duty with heating and cooling, making them usable year-round.
- Multi-stage or variable speed technology is quieter and delivers more consistent temperatures for greater comfort.
- Newer cold-climate heat pumps can deliver 70 to 80 percent of their rated heating capacity at temperatures as low as 5 degrees F.
- Connected features allow for remote adjustments and alerts, and enable participation in utility demand-response programs (where available and residents choose to opt-in).

ENERGY STAR certified connected heat pump water heaters

- A typical water heater uses more energy than a refrigerator, clothes washer, dishwasher, and dryer combined.
- A heat pump water heater that earns the ENERGY STAR label is up to four times more efficient, and uses 70 percent less energy, than a standard model, saving hundreds of dollars every year in energy costs.
- Connected features allow for remote adjustments and alerts, and enable participation in utility demand-response programs (where available and residents choose to opt-in).

Electric cooktops and ovens

- About three times more efficient than gas ranges.
- Eliminates the emissions of indoor air pollutants associated with gas combustion, including carbon monoxide and nitrogen dioxide, and contribute to a healthier indoor living environment.
- Children living in homes with gas stoves have a 42 percent increased risk of having asthma, according to a meta-analysis of 19 studies.
- Optional induction cooktops help you cook like a pro, with fast heating, precise control, easy cleaning, and surfaces that remain cool to the touch, making them safer to work with.

Electric vehicle (EV) charging capability

- With the steady increase of EVs on the road, preparing for an electric transportation future is just smart.
- In homes with private parking, a heavy-duty power outlet is wired in and ready to charge an electric vehicle or have a Level 2 EV charger installed.
- And even if you don't have an EV today, having the necessary wiring installed will make it quicker and easier to go electric if you're ready to make the change in the future.
- In apartment complexes with shared parking, up to five ENERGY STAR certified EV chargers are provided, with additional capacity to add more.

Highly energy efficient construction

- Meet the U.S. Environmental Protection Agency's (EPA) most advanced ENERGY STAR program requirements for energy efficiency and performance.
- At least 20 percent more energy efficient than homes built to typical code levels (2018 IECC).
- Savings, comfort, durability, and many lifestyle benefits compared to typical homes.

Learn more about ENERGY STAR NextGen homes and apartments at **energystar.gov/nextgenhomes**.

ENERGY STAR

NextGen™ CERTIFIED HOME

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

Address:

Built by:

Verified by:

Oversight by:

Date:

Program/Version number:

Optional information:

Built for a Clean Energy Future

ENERGY STAR

NextGen™ CERTIFIED HOME

BUILT FOR A CLEAN ENERGY FUTURE

Builder/Developer:
Permit Date/Number:
Home/Unit Address:

Rating Company:
Rater ID Number:
Rating Date:
Oversight By.
Program/Version Number:

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

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:

Primary Insulation Levels:
Ceiling: **Floor:**
Wall: **Slab:**

Primary Window Efficiency:
U-Value: **SHGC:**

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: **Duct Leakage to Outdoors:**

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

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

Whole-House Ventilation Type (System Type):

Energy Efficient Lighting and Appliances

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

Energy Efficient Lighting:

ENERGY STAR Certified Appliances and Fans:
Refrigerators: **Dishwashers:**
Ceiling Fans: **Exhaust Fans:**

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

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 HERS 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.

Rater Next Steps

1) Take mandatory ANSI 310 training from your HCO

2) Take optional ENERGY STAR NextGen training (still in development)

3) Become an expert on NextGen technologies

- HPWH guide under development
- Great trainings on ccHP: NYSERDA, NEEP

ENERGY STAR NextGen Certified Homes & Apartments
National Rater Field Checklist, Version 1.0 (Rev. 0)

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): Single Family New Homes (SFNH): ☐ SFNH National Version 3.2; *California Only:* ☐ SFNH California Version 3.4 Multifamily New Construction (MFNC): ☐ MFNC National Version 1.2; ☐ MFNC California Version 1.4	☐	☐	-
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.	☐	☐	☐
2.2 Each heat pump is controlled by a wifi thermostat or ENERGY STAR certified smart thermostat, or meets EPA's 'connected' criteria.	☐	☐	☐
2.3 Each air-source heat pump has two-speed or variable-speed blower fan & two-speed or variable-speed compressor.	☐	☐	☐
3. Dwelling Unit Water Heating			
3.1 ENERGY STAR certified heat pump water heater that is 208/240 volts is installed. [4]	☐	☐	☐
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	☐	☐	☐
3.3 Each heat pump water heater located within occupiable space has a manufacturer-rated sound level ≤ 55 dBA. [7, 8]	☐	☐	☐
3.4 Each heat pump water heater meets EPA's 'connected' criteria or has an ANSI / CTA-2045 port (EcoPort).	☐	☐	☐
4. Cooking			
4.1 Cooktops and ovens are electric. [9] Induction ranges are recommended, but not required.	☐	☐	☐
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 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 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."	☐	☐	-
5.2 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 spaces / 11-20 spaces / 21-30 spaces / 31-40 spaces / 41+ spaces **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]	☐	☐	-

Rater Name: _____ Rater Inspection Date: _____ Rater Initials: _____

Breaking Ground: Amplifying Early Adopters

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