

# ET Summit 2023

Presented by



# HVACR and Watering Heating Industry Developments

Decarbonization, Heat Pumps & the Low Global  
Warming Potential Refrigerant Transition

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# Air-Conditioning, Heating, and Refrigeration Institute (AHRI)

Advocate for 300+ HVACR and  
water heating manufacturers

Developer of 100+ international  
industry standards and guidelines

Administer of 40+ certification  
programs



# Our Members are Manufacturers

Cooling and heating products for residential, commercial and industrial applications

central AC & heating equipment

hydronic heating equipment

water heating equipment

components for heating, AC & refrigeration systems

commercial & industrial AC, heating & ventilation equipment

commercial & industrial refrigeration equipment



# Our Industry Has a History of Environmental Stewardship

The products and equipment manufactured by our members require energy – there's no getting around that fact

For more than 50 years, we have prioritized energy efficiency and Environmental stewardship

- Our industry has:
- Improved overall efficiency 50 percent over the past 20 years
- Innovated “green” HVACR and water heating products, including high efficiency motors, variable frequency drives, and lower GWP refrigerants and foam blowing agents and other technological advances
- Led the development and continued maintenance of the ENERGY STAR<sup>®</sup> program for commercial foodservice equipment



## For Discussion Today

Decarbonization

Heat Pumps

Refrigerant Transition

## Decarbonization

- AHRI's Board-approved decarbonization policy states:
  - AHRI and its members, which are HVACR and water heating manufacturers, are committed to and support greenhouse gas (GHG) emission reductions, while promoting sustainable, safe, reliable, and affordable access to the essential air and water heating and cooling provided by the products they manufacture
  - AHRI members support a single, national energy policy that...ensures continued safe, reliable, affordable access to critical heating and cooling services

## Inflation Reduction Act of

- Energy Efficient Home Improvement Credit:
- Tax credit of 30% of installation cost on HVACR and water heating products, up to:
  - \$600 per air conditioner
  - \$600 per furnace
  - \$600 per boiler
  - **\$2,000 per heat pump**
  - **\$2,000 per heat pump water heater**
- Equipment must meet the highest CEE efficiency tier (but not advanced)



# Inflation Reduction Act of

High Efficiency Electric Home Rebate Program (administered by states with federal funds):

Means tested point-of-sale rebate program:

- Low-income household: 100% of costs with a maximum benefit for items listed below:
- Moderate-income household: 50% of costs, with a maximum benefit for items listed below:
  - \$8,000 for heat pump
  - \$1,750 for heat pump water heater
  - \$4,000 for service center upgrade
  - \$1,600 for insulation, air-sealing, and ventilation improvements
  - \$2,500 for electric wiring changes
  - Max rebate total: \$14,000



# U.S. Refrigerant Transition Developments

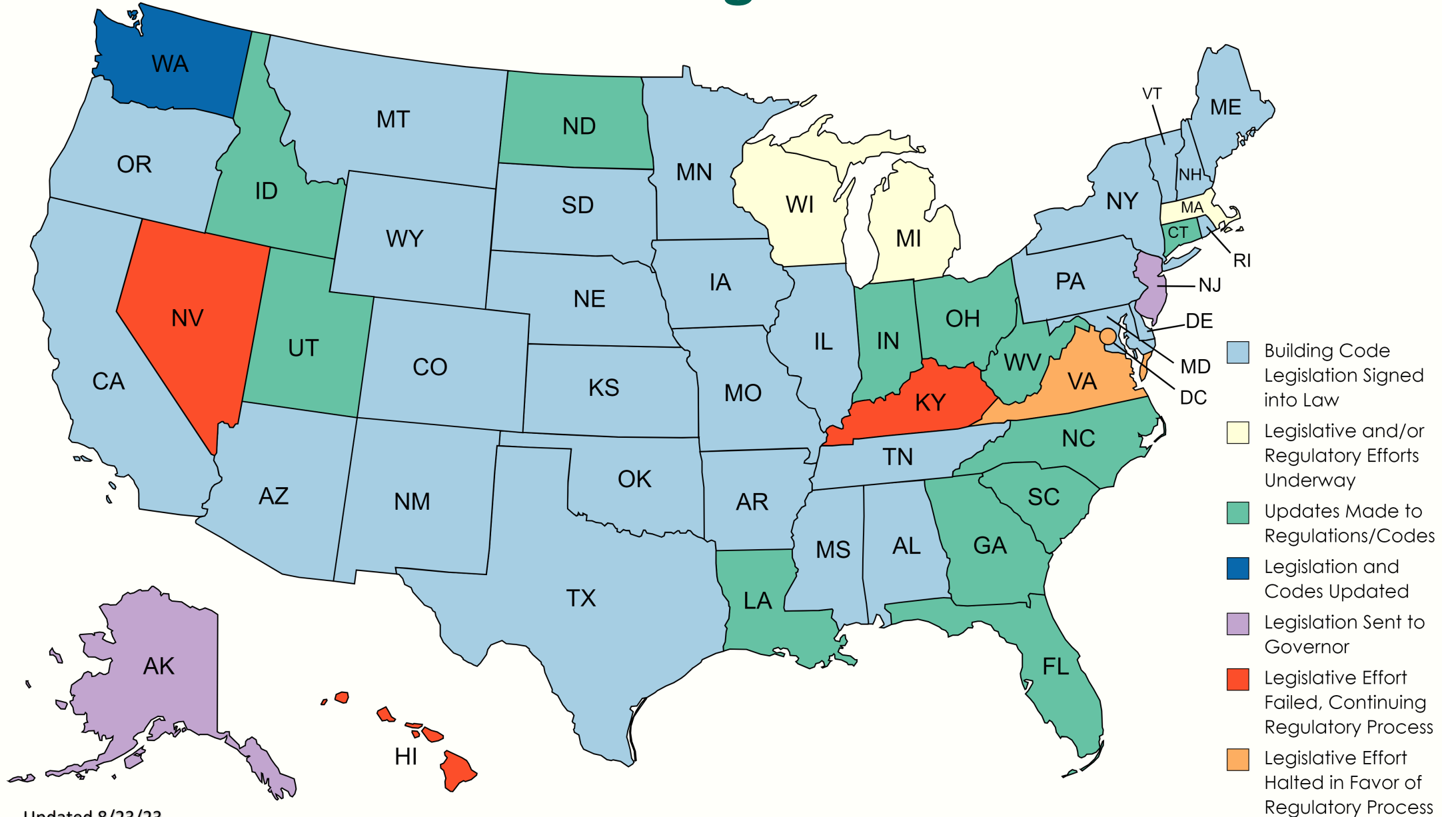
Congress: Kigali Amendment ratified and implementing legislation (AIM Act) approved

EPA: Implementation of the AIM Act is well underway – awaiting the release of the Technology Transitions final rule (September-October)

Building codes are being updated in states to allow the new refrigerants (see map)

Work with the Department of Transportation and OSHA ongoing

# Low GWP Building Code Status



# Thank you!

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