

### IECC 2024 Update International Energy Conservation Code

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## Agenda



**Proposed Timeline** 

**Expected Changes** 

Electric Vehicles & Electric Readiness

Next Steps and Q&A



### **Proposed Adoption Timeline**

2024 Update to International Energy Conservation Code (IECC)





### Stakeholder Engagement

- Public Comment Period
  - May 6 31
  - Speak Up Austin
- Available Resources
  - Code adoption timeline & process
  - Code summaries
  - Proposed ordinance
- Austin Energy Green Building webinars as requested



Speak Up Austin > COA 2024 Technical Code Changes Engagement







#### International Energy Conservation Code (IECC) (2024 Amendments)

The public input period for this code will be May 6 - 31, 2024. The Austin City Council will review the proposed changes prior to adoption.

#### Learn More



### **Expected Changes – Residential** 2024 IECC (Proposed)

- Additional Energy Efficiency requirement point system
  - 1. Prescriptive Path envelope, mechanical, demand response and onsite solar options
  - 2. Modeling Path demonstrate up to 20% energy savings
- Demand response controls required for electric water heaters
- Bathroom exhaust fans require controls to remove moisture
  - Can include timers, occupant sensors, humidity control or contaminant control
  - Similar requirement in Austin Energy Green Building program
- Air leakage target reduction from 5 ACH50 to 4 ACH50
- Prescriptive attic insulation requirement decreased to R38



# Expected Changes – Commercial

#### 2024 IECC (Proposed)

- Updates specific Additional Efficiency section to align the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) standard 90.1 2019 addendum AP
- Energy Storage Systems (ESS) installed or ESS ready
- Onsite renewable energy generation or offsite procurement options





### **Electric Vehicle Readiness**

### 2024 IECC (Proposed)

#### Commercial

EV-capable, EV-ready or EVSE required quantities determined by building occupancy type

#### Residential

- One and two-family dwellings and townhouses = one EV-capable, EV-ready or EVSE space per dwelling
- R-2 occupancies = EV-capable, EV-ready or EVSE space for 40% of dwelling units or car parking spaces, whichever is less



#### Definitions

- EV-Capable Capacity and conduit
- EV-Ready Capacity, conduit, wiring and outlet
- EVSE Capacity, conduit, wiring, charging station



## **Electric Readiness**

2024 IECC (Proposed)



- Requirements included in Appendix CH
- Combustion space heating
- Combustion service water heating
- Combustion cooking/clothes drying
- Reserved space for future electric equipment
- Dedicated branch circuits



- Capacity to be included in load calculations
- Dedicated branch circuit outlets shall be installed and terminate within three feet of and with a rating not less than
  - Cooking appliances: 240-volts, 40-amps
  - Clothes dryers: 240-volts, 30-amps
  - Water heaters: 240-volts, 30-amps or 120V, 20-amps
- Exceptions allowed for equipment not installed or serving multiple dwelling units



### Space Clearances Research

Austin Energy Green Building is contacting local and national partners to determine the practicability of a local code amendment to include space clearances minimums for water heaters.



Electrify Now Webinar: 120 Volt Plug-In Heat Pump Water Heaters







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