

ORDINANCE NO. 2024-04

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SANTA CRUZ AMENDING
SECTION 18.050.040 “ENERGY CODE – MODIFICATIONS” OF CHAPTER 18.15
“ENERGY CODE” OF THE CITY OF SANTA CRUZ MUNICIPAL CODE

BE IT ORDAINED By the City of Santa Cruz as follows:

Section 1. Table 150.0-J of Section 18.15.040 of Chapter 18.04 of the Santa Cruz Municipal Code is hereby amended to read as follows:

“Table 150.0-J: Measure Specifications

ID	Measure Specification
General Measures	
E1	Water Heating Package: Add exterior insulation meeting a minimum of R-6 to existing storage water heaters. Insulate all accessible hot water pipes with pipe insulation a minimum of ¾ inch thick. This includes insulating the supply pipe leaving the water heater, piping to faucets underneath sinks, and accessible pipes in attic spaces or crawlspaces. Upgrade fittings in sinks and showers to meet current California Green Building Standards Code (Title 24, Part 11) Section 4.303 water efficiency requirements. Water heaters 20 gallons or less, or water heaters that are not able to add exterior insulation may not take credit for this measure. Exception 1: Water heater blanket is not required on water heaters less than 20 gallons. Exception 2: Water heater blanket not required if application of a water heater blanket voids the warranty on the water heater. Exception 3: Upgraded fixtures are not required if existing fixtures have rated or measured flow rates of no more than ten percent greater than 2022 California Green Building Standards Code (Title 24, Part 11) Section 4.303 water efficiency requirements. Exception 4: Water heaters with factory installed insulation of R-24 or greater
E2	Induction Cooktop: Replace existing gas and electric resistance stove top with inductive stove top and cap the gas line..
E3	Heat Pump Clothes Dryer: Replace existing electric resistance clothes dryer with heat pump dryer with no resistance element and cap gas line.
E4	Air Sealing: Seal all accessible cracks, holes, and gaps in the building envelope at walls, floors, and ceilings. Pay special attention to penetrations including plumbing, electrical, and mechanical vents, recessed can light luminaires, and windows. Weather-strip doors if not already present. Verification shall be conducted by a certified HERS Rater that either: a) shows at least a 30 percent reduction from pre-retrofit conditions; or b) shows that the number of air changes per hour at 50 Pascals pressure difference (ACH50) does not exceed ten for Pre-1978 vintage buildings, seven for 1978 to 1991 vintage buildings and five for 1992-2010 vintage buildings. Compliance can also be demonstrated with blower door testing conducted by a certified HERS Rater no more than three years prior to the permit application date showing compliance with condition (a) or (b). If combustion appliances are located within the pressure boundary of the building, conduct a combustion safety test by a professional certified by the Building Performance Institute in

	<p>accordance with the ANSI/BPI-1200-S-2017 Standard Practice for Basic Analysis of Buildings, the Whole House Combustion Appliance Safety Test Procedure for the Comfortable Home Rebates Program 2020 or the California Community Services and Development Combustion Appliance Safety Testing Protocol.</p> <p>Reducing the air leakage of a building can reduce the building's drying potential. When improving the air sealing of a building, consider if there is a need to add continuous ventilation to the building (if not already present).</p>
E5	<p>Duct Sealing: Air seal all space conditioning ductwork to meet the requirements of the 2022 Title 24 Section 150.2(b)1E. The duct system must be tested by a HERS Rater no more than three years prior to the alteration or addition permit application date to verify the duct sealing and confirm that the requirements have been met. This measure may not be combined with the New Ducts and Duct Sealing measure in this Table. Dwelling units without ductwork or where the ducts are in conditioned space may not take credit for this measure.</p>
E6	<p>R-49 Attic Insulation: Attic insulation shall be installed to achieve a weighted assembly U-factor of 0.020 or insulation installed at the ceiling level shall have a thermal resistance of R-49 or greater for the insulation alone. Recessed downlight luminaires in the ceiling shall be covered with insulation to the same depth as the rest of the ceiling. Luminaires not rated for insulation contact must be replaced or fitted with a fire-proof cover that allows for insulation to be installed directly over the cover.</p> <p>Exception: In buildings where existing R-30 is present and existing recessed downlight luminaires are not rated for insulation contact, insulation is not required to be installed over the luminaires.</p>
E7	<p>Windows: Replace at least 50% of existing windows with high performance windows with an area-weighted average U-factor no greater than 0.30.</p>
E8	<p>R-13 Wall Insulation: Install wall insulation in all exterior walls to achieve a weighted U-factor of 0.102 or install wall insulation in all exterior wall cavities that shall result in an installed thermal resistance of R-13 or greater for the insulation alone.</p>
E9	<p>New Ducts + Duct Sealing: Replace existing space conditioning ductwork with new R-8 ducts that meet the requirements of 2022 Title 24 Section 150.0(m)11. This measure may not be combined with the Duct Sealing measure in this Table. To qualify, a preexisting measure must have been installed no more than three years before the alteration or addition permit application date.</p>
E10	<p>R-19 Floor Insulation: Raised-floors shall be insulated such that the floor assembly has an assembly U-factor equal to or less than U-0.037, or shall be insulated between wood framing with insulation having an R-value equal to or greater than R-19. This measure cannot be combined with measure R-30 Floor insulation.</p>
E11	<p>R-30 Floor Insulation: Raised-floors shall be insulated such that the floor assembly has an assembly U-factor equal to or less than U-0.028, or shall be insulated between wood framing with insulation having an R-value equal to or greater than R-30. This measure cannot be combined with measure R-19 Floor insulation.</p>
E12	<p>Heat Pump Water Heater (HPWH): Replace existing electric resistance or natural gas storage water heater with a heat pump water heater.</p>
E13	<p>PV and Electric Ready Pre-Wire: Install a solar PV system that meets the requirements of 2022 Title 24 Section 150.1(c)14.</p> <p>In addition to the solar PV system, comply with the water heating system electric readiness requirements per Section 150.0(w)4 and the heat pump space heaters requirements per Section 150.0(t) and one of the following:</p> <p>A. Energy Storage Systems (ESS) Ready, as specified in Section 150.0(s), or</p>

	<p>B. EV Charger Ready as specified in the California Green Building Code, Title 24, Part 11, Section A4.106.8.1, which otherwise applies to new construction.</p> <p>Exception 1: In buildings where the designated space requirement specified in Section 150.0(n)1 can be demonstrated to the building official as infeasible, the electric readiness components per Section 150.0(n)1 are not required.</p>
E14	<p>Heat Pump Space Heater: Replace all existing gas and electric resistance space heating systems with an electric-only heat pump system</p>
Mandatory Measures	
M1	<p>Utility Room, Kitchen & Laundry-Related Electric Ready Pre-Wire: Where the project includes a kitchen remodel, comply with the electric cooktop ready requirement, as specified in Section 150.0(u). Where the project includes a laundry room remodel, comply with the electric clothes dryer ready requirement, as specified in Section 150.0(v). Where the project includes a utility room remodel, comply with the water heating system electric readiness requirements per Section 150.0(w)4 and the heat pump space heater electric readiness requirements per Section 150.0(t):</p> <p>Exception 1: If an electrical permit is not otherwise required for the project other than compliance with this measure.</p> <p>Exception 2: If a utility service upgrade is not otherwise required for the project other than compliance with this measure.</p> <p>Exception 3: In buildings where the designated space requirement specified in Section 150.0(w)4 can be demonstrated to the building official as infeasible, the electric readiness components per Section 150.0(w)4 are not required.</p>
M2	<p>Panel-Related Electric Ready Pre-Wire: Where the project includes a new electrical panel and electrical service upgrade to 200A or more, comply with the water heating systems electric readiness requirements per Section 150.0(w)4 and the heat pump space heater electric readiness requirements per Section 150.0(t).</p> <p>Exception 1: In buildings where the designated space requirement specified in Section (150.0(w)4 can be demonstrated to the building official as infeasible, the electric readiness components per Section 150.0(w)4 are not required.</p>

Section 3. This ordinance shall take effect and be in full force thirty (30) days after final adoption.

ORDINANCE NO. 2025-04

PASSED FOR PUBLICATION this 25th day of February 2025, by the following vote:

AYES: Councilmembers Trigueiro, Brunner, Newsome, Golder, O'Hara; Vice Mayor Kalantari-Johnson; Mayor Keeley.

NOES: None.

ABSENT: None.

DISQUALIFIED: None.

APPROVED: _____
Fred Keeley, Mayor

ATTEST: _____
Bonnie Bush, City Clerk Administrator

PASSED FOR FINAL ADOPTION this 11th day March 2025, by the following vote:

AYES:

NOES:

ABSENT:

DISQUALIFIED:

APPROVED: _____
Fred Keeley, Mayor

ATTEST: _____
Bonnie Bush, City Clerk Administrator

This is to certify that the above and foregoing document is the original of Ordinance No. 2025-04 and that it has been published or posted in accordance with the Charter of the City of Santa Cruz.

Bonnie Bush, City Clerk Administrator