



ELECTRIC-READY REQUIREMENTS FOR NEW SINGLE-FAMILY RESIDENTIAL BUILDINGS

ONE-OR-TWO DWELLING UNITS

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PURPOSE

This table summarizes the electric-ready requirements for new single-family residential buildings with one or two dwelling units.

Note: These requirements must be shown on the cover sheet of all plan submissions.

CODE REFERENCES

Cupertino Muni Code (CMC) [16.58.400](#), 2025 California Energy Code, 2025 California Green Building Standards Code

REQUIREMENTS

System	Detailed Requirements
Energy Storage System (ESS) Ready <i>(CEnC §150.0(s))</i>	Must choose one of the following options: Option A: Install ESS-ready interconnection equipment with: – Minimum 60A backed-up capacity – At least four dedicated branch circuits (including circuits serving the refrigerator, lighting near primary egress, and a sleeping room receptacle) Option B: Install a dedicated 1" raceway from the main service to a subpanel labeled "Subpanel shall include all backed-up load circuits." Additionally: – Main panelboard must have a minimum 225A busbar rating – Reserve space within 3 feet of the panel for a transfer switch/system isolation equipment – Provide a raceway for backup power
Heat Pump Space Heater Ready <i>(CEnC §150.0(t))</i>	– Install a dedicated 240V, 30A branch circuit within 3 feet of the furnace, with a blank cover labeled "240V ready." – Reserve space in the main panel for a double-pole breaker labeled "For Future 240V Use." – Designate an exterior location for a future heat pump compressor, with proper condensate drainage.
Electric Cooktop Ready <i>(CEnC §150.0(u))</i>	– Install a dedicated 240V, 50A branch circuit within 3 feet of the cooktop, with a blank cover labeled "240V ready." – Reserve space in the main panel for a double-pole breaker labeled "For Future 240V Use."
Electric Clothes Dryer Ready <i>(CEnC §150.0(v))</i>	– Install a dedicated 240V, 30A branch circuit within 3 feet of the dryer location, with a blank cover labeled "240V ready." – Reserve space in the main panel for a double-pole breaker labeled "For Future 240V Use."
Heat Pump Water Heater (HPWH) Ready <i>(CEnC §150.0(n))</i>	Applies to new construction and additions using gas or propane water heaters. Provide on plan a designated space (min. 2.5' x 2.5' x 7') for a future HPWH. Option A (≤ 3 feet from WH): – Provide a dedicated 125V, 20A receptacle on a 120/240V, 10 AWG copper branch circuit. – Include a labeled, electrically isolated "spare" conductor. – Reserve space for a single-pole breaker labeled "Future 240V Use." Option B (> 3 feet from WH): – Install a dedicated 240V, 30A branch circuit with a blank cover labeled "240V ready." – Reserve space for a double-pole breaker. – Route cold and hot water piping through the future HPWH location. – Provide an accessible condensate drain no more than 2" above the base of the unit.
EV Charging Readiness <i>(Cupertino Municipal Code §16.58.400 / CALGreen §4.106.4.1.1)</i>	For new one- and two-family dwellings with private garages: – Provide dedicated 208/240V, 40A branch circuit (per dwelling unit). – Install minimum 1-inch conduit (raceway) from main service or subpanel to EV location. – Raceway shall be continuous in concealed or inaccessible spaces. – Terminate at box or enclosure near proposed EV charger location. – Exception: Raceway not required if full 40A circuit is installed at EV location at time of construction. – Provide receptacle or blank cover per California Electrical Code. – Label panel directory and outlet/cover as "EV READY."