M = MANDATORY
# = AVAILABLE OPTIONAL POINTS

2011 Enterprise Green Communities Criteria Checklist

This checklist provides an overview of the technical requirements within the Enterprise Green Communities Criteria. **To achieve Enterprise Green Communities Certification, all projects must achieve compliance with the Criteria mandatory measures applicable to that construction type. Additionally, New Construction projects must achieve 35 optional points, Substantial Rehab projects must achieve 30 optional points, and Moderate Rehab projects must also achieve 30 optional points.**

1: INTEGRATIVE DESIGN

◯ YES ◯ NO ◯ MAYBE	M	**1.1a Green Development Plan: Integrative Design Meeting(s)** Conduct one or more integrative design meetings and submit a Green Development Plan or equivalent documentation.
◯ YES ◯ NO ◯ MAYBE	M	**1.1b Green Development Plan: Criteria Documentation** Create design and construction documentation to include information on implementation of appropriate Enterprise Green Communities Criteria.
◯ YES ◯ NO ◯ MAYBE	2	**1.2a Universal Design** *(New Construction only)* Design a minimum of 15% of the dwelling units (no fewer than one) in accordance with ICC/ANSI A117.1, Type A, Fully Accessible guidelines.
◯ YES ◯ NO ◯ MAYBE	2 or 3	**1.2b Universal Design** *(Substantial and Moderate Rehab only)* Design a minimum of 10% of the dwelling units (no fewer than one) in accordance with ICC/ANSI A117.1, Type A, Fully Accessible guidelines *[2 points]* and, for an additional point, the remainder of the ground-floor units and elevator-reachable units should have accessible unit entrances.
		SUBTOTAL OPTIONAL POINTS

2: LOCATION + NEIGHBORHOOD FABRIC

◯ YES ◯ NO ◯ MAYBE	M	**2.1 Sensitive Site Protection** *(New Construction only)* Do not locate new development, including buildings, built structures, roads, or other parking areas, on portions of sites that meet any of the following provisions: • Land within 100 feet of wetlands, including isolated wetlands or streams • Land on slope greater than 15% • Land with prime soils, unique soils, or soils of state significance • Public parkland • Land that is specifically identified as habitat for any species on federal or state threatened or endangered lists • Land with elevation at or below the 100-year floodplain
◯ YES ◯ NO ◯ MAYBE	M	**2.2 Connections to Existing Development and Infrastructure** *(New Construction only, except for projects located on rural tribal lands, in colonias communities, or in communities of population less than 10,000)* Locate project on a site with access to existing roads, water, sewers, and other infrastructure within or contiguous to existing development. Connect the project to the pedestrian grid.

M = MANDATORY
# = AVAILABLE OPTIONAL POINTS

LOCATION + NEIGHBORHOOD FABRIC (CONTINUED)

◯ YES ◯ NO ◯ MAYBE — M

2.3 Compact Development *(New Construction only)*
Design and build the project to a density of at least:

- *Urban/Small Cities:* 10 dwelling units per acre, or at least 75% of surrounding net residential density, whichever is greater
- *Suburban/Mid-Size Towns:* 7 dwelling units per acre, or at least 75% of surrounding net residential density, whichever is greater
- *Rural/Tribal/Small Towns:* 5 units per acre for detached or semi-detached housing; 10 units per acre for townhomes; 15 units per acre for apartments

◯ YES ◯ NO ◯ MAYBE — 5 or 6

2.4 Compact Development
Design and build the project to a density of at least:

- *Urban/Small Cities:* 15 dwelling units per acre, or at least 75% of surrounding net residential density, whichever is greater *[5 points]*
- *Suburban/Mid-Size Towns:* 10 dwelling units per acre, or at least 75% of surrounding net residential density, whichever is greater *[6 points]*
- *Rural/Tribal/Small Towns:* 7.5 units per acre for detached or semi-detached housing; 12 units per acre for townhomes; 20 units per acre for apartments *[6 points]*

◯ YES ◯ NO ◯ MAYBE — M

2.5 Proximity to Services *(New Construction only)*
Locate the project within:

- *Urban/Small Cities:* a 0.25-mile walk distance of at least two ***OR*** a 0.5-mile walk distance of at least four of the list of facilities
- *Suburban/Mid-Size Towns:* a 0.5-mile walk distance of at least three ***OR*** a 1-mile walk distance of at least six of the list of facilities
- *Rural/Tribal/Small Towns:* two miles of at least two of the list of facilities

◯ YES ◯ NO ◯ MAYBE — M

2.6 Preservation of and Access to Open Space: Rural/Tribal/Small Towns Only
(New Construction only)
Set aside a minimum of 10% of the total project acreage as open space for use by residents ***OR*** locate project within a 0.25-mile walk distance of dedicated public open space that is a minimum of 0.75 acres

◯ YES ◯ NO ◯ MAYBE — 3 max

2.7 Preservation of and Access to Open Space
Set aside a percentage of the total project acreage as open space for use by residents: 20% *[1 point]*; 30% *[2 points]*; and 40% + written statement of preservation/conservation policy for set-aside land *[3 points]*

◯ YES ◯ NO ◯ MAYBE — 5

2.8 Access to Public Transportation
Locate the project within:

- *Urban/Small Cities:* a 0.5-mile walk distance of combined transit services (bus, rail, and ferry) constituting 76 or more transit rides per weekday and 32 or more transit rides on the weekend
- *Suburban/Mid-Size Towns:* a 0.5-mile walk distance of combined transit services (bus, rail, and ferry) constituting 60 or more transit rides per weekday and some type of weekend ride option
- *Rural/Tribal/Small Towns:* 5-mile distance of either a vehicle share program, a dial-a-ride program, an employer van pool, or public–private regional transportation

◯ YES ◯ NO ◯ MAYBE — 5

2.9 Walkable Neighborhoods: Connections to Surrounding Neighborhood—Rural/Tribal/Small Towns
Connect the project to public spaces, open spaces, and adjacent development by providing at least three separate connections from the project to sidewalks or pathways in surrounding neighborhoods and natural areas.

M = MANDATORY
# = AVAILABLE OPTIONAL POINTS

LOCATION + NEIGHBORHOOD FABRIC (CONTINUED)

◯ YES ◯ NO ◯ MAYBE — 7 max

2.10 Smart Site Location: Passive Solar Heating/Cooling
Demonstrate a building with a passive solar design, orientation, and shading that meet specified guidelines. *Select one:*
- Single building—New Construction *[7 points]*
- Multiple buildings—New Construction *[7 points]*
- Moderate or Substantial Rehab *[7 points]*

◯ YES ◯ NO ◯ MAYBE — 2

2.11 Brownfield or Adaptive Reuse Site
Locate the project on a brownfield or adaptive reuse site. *Select either:* adaptive reuse site *[2 points]* or brownfield remediation *[2 points]*

◯ YES ◯ NO ◯ MAYBE — 6

2.12 Access to Fresh, Local Foods
Pursue one of three options to provide residents and staff with access to fresh, local foods, including neighborhood farms and gardens; community-supported agriculture; proximity to farmers market.

◯ YES ◯ NO ◯ MAYBE — 4

2.13 LEED for Neighborhood Development Certification
Locate the project in a Stage 2 Pre-Certified LEED for Neighborhood Development plan or a Stage 3 LEED for Neighborhood Development Certified Neighborhood Development.

SUBTOTAL OPTIONAL POINTS

3: SITE IMPROVEMENTS

◯ YES ◯ NO ◯ MAYBE — M

3.1 Environmental Remediation
Conduct an environmental site assessment to determine whether any hazardous materials are present on site.

◯ YES ◯ NO ◯ MAYBE — M

3.2 Erosion and Sedimentation Control *(Except for infill sites with buildable area smaller than one acre)*
Implement EPA's Best Management Practices for erosion and sedimentation control during construction.

◯ YES ◯ NO ◯ MAYBE — M

3.3 Low-Impact Development *(New Construction only)*
Projects located on greenfields must meet the list of low-impact development criteria.

◯ YES ◯ NO ◯ MAYBE — M

3.4 Landscaping
Provide new plants (including trees, shrubs, and ground cover) such that at least 50% of area available for landscaping is planted with native or adaptive species, all new plants are appropriate to the site's soil and microclimate, and none of the new plants is an invasive species.

◯ YES ◯ NO ◯ MAYBE — M

3.5 Efficient Irrigation and Water Reuse
If irrigation is utilized, install an efficient irrigation or water reuse system.

◯ YES ◯ NO ◯ MAYBE — 2 or 6

3.6 Surface Stormwater Management
Retain, infiltrate, and/or harvest stormwater on site. *Select only one:* partial stormwater retention *[2 points]* or full stormwater retention *[6 points]*

SUBTOTAL OPTIONAL POINTS

M = MANDATORY
# = AVAILABLE OPTIONAL POINTS

4: WATER CONSERVATION

◯ YES ◯ NO ◯ MAYBE	M	**4.1 Water-Conserving Fixtures** Install or retrofit water-conserving fixtures in all units and any common facilities with the following specifications: Toilets—1.28 gpf; Urinals—0.5 gpf; Showerheads—2.0 gpm; Kitchen faucets—2.0 gpm; Bathroom faucets—1.5 gpm
◯ YES ◯ NO ◯ MAYBE	6 max	**4.2 Advanced Water-Conserving Appliances and Fixtures** Install or retrofit water-conserving fixtures in all units and any common facilities with the following specifications: Toilets—1.2 gpf; Showerheads—1.5 gpm; Kitchen faucets—1.5 gpm; Bathroom faucets—0.5 gpm. *Select any, or all, of the options:* • Toilets *[2 points]* • Showerheads *[2 points]* • Faucets—kitchen and bathroom *[2 points]*
◯ YES ◯ NO ◯ MAYBE	4 max	**4.3 Water Reuse** Harvest, treat, and reuse rainwater and/or greywater to meet a portion of the project's water needs. • 10% reuse *[1 point]* • 20% reuse *[2 points]* • 30% reuse *[3 points]* • 40% reuse *[4 points]*
		SUBTOTAL OPTIONAL POINTS

5: ENERGY EFFICIENCY

◯ YES ◯ NO ◯ MAYBE	M	**5.1a Building Performance Standard: Single family and Multifamily** (three stories or fewer) *(New Construction only)* Certify the project under ENERGY STAR New Homes.
◯ YES ◯ NO ◯ MAYBE	M	**5.1b Building Performance Standard: Multifamily** (four stories or more) *(New Construction only)* Demonstrate compliance with EPA's Multifamily High-Rise program (MFHR) using either the prescriptive or the performance pathway.
◯ YES ◯ NO ◯ MAYBE	M	**5.1c Building Performance Standard: Single family and Multifamily** (three stories or fewer) *(Substantial and Moderate Rehab only)* Demonstrate that the final energy performance of the building is equivalent to a Home Energy Rating System (HERS) Index of 85.
◯ YES ◯ NO ◯ MAYBE	M	**5.1d Building Performance Standard: Multifamily** (four stories or more) *(Substantial and Moderate Rehab only)* Demonstrate that the final energy performance of the building is equivalent to ASHRAE 90.1-2007.
◯ YES ◯ NO ◯ MAYBE	15 max	**5.2 Additional Reductions in Energy Use** Improve whole-building energy performance by percentage increment above baseline building performance standard for additional points.
◯ YES ◯ NO ◯ MAYBE	M	**5.3 Sizing of Heating and Cooling Equipment** Size heating and cooling equipment in accordance with the Air Conditioning Contractors of America (ACCA) Manuals, Parts J and S, or ASHRAE handbooks.
◯ YES ◯ NO ◯ MAYBE	M	**5.4 ENERGY STAR Appliances** If providing appliances, install ENERGY STAR–labeled clothes washers, dishwashers, and refrigerators.

M = MANDATORY
# = AVAILABLE OPTIONAL POINTS

ENERGY EFFICIENCY (CONTINUED)

◯ YES ◯ NO ◯ MAYBE	M	**5.5a Efficient Lighting: Interior Units** Follow the guidance appropriate for the project type: install the ENERGY STAR Advanced Lighting Package (ALP); ***OR*** follow the ENERGY STAR MFHR program guidelines, which require that 80% of installed lighting fixtures within units must be ENERGY STAR–qualified or have ENERGY STAR–qualified lamps installed; ***OR*** if replacing, new fixtures and ceiling fans must meet or exceed ENERGY STAR efficiency levels.
◯ YES ◯ NO ◯ MAYBE	M	**5.5b Efficient Lighting: Common Areas and Emergency Lighting** Follow the guidance appropriate for the project type: use ENERGY STAR–labeled fixtures or any equivalent high-performance lighting fixtures and bulbs in all common areas; ***OR*** if replacing, new common space and emergency lighting fixtures must meet or exceed ENERGY STAR efficiency levels. For emergency lighting, if installing new or replacing, all exit signs shall meet or exceed LED efficiency levels and conform to local building codes.
◯ YES ◯ NO ◯ MAYBE	M	**5.5c Efficient Lighting: Exterior** Follow the guidance appropriate for the project type: install ENERGY STAR–qualified fixtures or LEDs with a minimum efficacy of 45 lumens/watt; ***OR*** follow the ENERGY STAR MFHR program guidelines, which require that 80% of outdoor lighting fixtures must be ENERGY STAR–qualified or have ENERGY STAR-qualified lamps installed; ***OR*** if replacing, install ENERGY STAR compact fluorescents or LEDs with a minimum efficacy of 45 lumens/watt.
◯ YES ◯ NO ◯ MAYBE	M	**5.6a Electricity Meter** *(New Construction and Substantial Rehab only)* Install individual or sub-metered electric meters in all dwelling units.
◯ YES ◯ NO ◯ MAYBE	3	**5.6b Electricity Meter** *(Moderate Rehab only)* Install individual or sub-metered electric meters in all dwelling units.
◯ YES ◯ NO ◯ MAYBE	12 max	**5.7a Renewable Energy** Install photovoltaic (PV) panels, wind turbines, or other electric-generating renewable energy source to provide a specified percentage of the project's estimated energy demand.
◯ YES ◯ NO ◯ MAYBE	1 or 2	**5.7b Photovoltaic/Solar Hot Water Ready** Site, design, engineer, and/or plumb the development to accommodate installation of photovoltaic (PV) or solar hot water system in the future.
◯ YES ◯ NO ◯ MAYBE	5	**5.8 Advanced Metering Infrastructure** Site, design, engineer, and wire the development to accommodate installation of smart meters and/or be able to interface with smart grid systems in the future.
		SUBTOTAL OPTIONAL POINTS

6: MATERIALS BENEFICIAL TO THE ENVIRONMENT

◯ YES ◯ NO ◯ MAYBE	M	**6.1 Low/No VOC Paints and Primers** All interior paints and primers must be less than or equal to the following VOC levels: Flats—50 g/L; Non-flats—50 g/L; Floor—100 g/L
◯ YES ◯ NO ◯ MAYBE	M	**6.2 Low/No VOC Adhesives and Sealants** All adhesives must comply with Rule 1168 of the South Coast Air Quality Management District. All caulks and sealants must comply with regulation 8, rule 51, of the Bay Area Air Quality Management District.
◯ YES ◯ NO ◯ MAYBE	M	**6.3 Construction Waste Management** Commit to following a waste management plan that reduces non-hazardous construction and demolition waste by at least 25% by weight through recycling, salvaging, or diversion strategies.

M = MANDATORY
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MATERIALS BENEFICIAL TO THE ENVIRONMENT (CONTINUED)

◯ YES ◯ NO ◯ MAYBE — 5 max

6.4 Construction Waste Management: Optional

Determine percentage of waste diversion and earn all points below that threshold:

- 35% waste diversion *[1 point]*
- 45% waste diversion *[1 point]*
- 55% waste diversion *[1 point]*
- 65% waste diversion *[1 point]*
- 75% waste diversion *[1 point]*

◯ YES ◯ NO ◯ MAYBE — 5

6.5 Recycling Storage for Multifamily Project

Provide one or more easily accessible, permanent areas for the collection and storage of materials for recycling.

◯ YES ◯ NO ◯ MAYBE — 5 max

6.6 Recycled Content Material

Incorporate building materials that are composed of at least 25% post-consumer recycled content or at least 50% post-industrial recycled content. *Select from the following:*

- Framing materials *[1 point]*
- Exterior materials: siding, masonry, roofing *[1 point]*
- Concrete/cement and aggregate *[1 point]*
- Drywall/interior sheathing *[1 point]*
- Flooring materials *[1 point]*

◯ YES ◯ NO ◯ MAYBE — 5 max

6.7 Regional Material Selection

Use products that were extracted, processed, and manufactured within 500 miles of the home or building for a minimum of 50% of the building material value (based on cost). *Select any or all of these options:*

- Framing materials *[1 point]*
- Exterior materials: siding, masonry, roofing *[1 point]*
- Concrete/cement and aggregate *[1 point]*
- Drywall/interior sheathing *[1 point]*
- Flooring materials *[1 point]*

◯ YES ◯ NO ◯ MAYBE — 5

6.8 Certified, Salvaged, and Engineered Wood Products

Commit to using wood products and materials of at least 25% that are (by cost): FSC-certified, salvaged products, or engineered framing materials without urea-formaldehyde binders.

◯ YES ◯ NO ◯ MAYBE — 1 or 3

6.9a Reduced Heat-Island Effect: Roofing

Use Energy Star–compliant roofing or install a "green" (vegetated) roof for at least 50% of the roof area. *Select only one:* cool roof *[3 points]* or green roof *[1 point]*

◯ YES ◯ NO ◯ MAYBE — 2

6.9b Reduced Heat-Island Effect: Paving

Use light-colored, high-albedo materials and/or an open-grid pavement, with a minimum solar reflectance of 0.3, over at least 50% of the site's hardscaped area.

SUBTOTAL OPTIONAL POINTS

7: HEALTHY LIVING ENVIRONMENT

◯ YES ◯ NO ◯ MAYBE — M

7.1 Composite Wood Products that Emit Low/No Formaldehyde

All composite wood products must be certified compliant with California 93120. If using a composite wood product that does not comply with California 93120, all exposed edges and sides must be sealed with low-VOC sealants.

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HEALTHY LIVING ENVIRONMENT (CONTINUED)

◯ YES ◯ NO ◯ MAYBE	M	**7.2 Environmentally Preferable Flooring** Do not install carpets in entryways, laundry rooms, bathrooms, kitchens/kitchenettes, utility rooms, and all rooms of ground-connected floors. Any carpet products used must meet the Carpet and Rug Institute's Green Label or Green Label Plus certification for carpet, pad, and carpet adhesives. Any hard surface flooring products used must be either ceramic tile, unfinished hardwood floors, ***OR*** in compliance with the Scientific Certification System's FloorScore program criteria.
◯ YES ◯ NO ◯ MAYBE	4	**7.3 Environmentally Preferable Flooring: Alternative Sources** Use non-vinyl, non-carpet floor coverings in all rooms of building.
◯ YES ◯ NO ◯ MAYBE	M	**7.4a Exhaust Fans: Bathroom** *(New Construction and Substantial Rehab only)* Install Energy Star–labeled bathroom fans that exhaust to the outdoors, are connected to a light switch, and are equipped with a humidistat sensor, timer, or other control (e.g., occupancy sensor, delay off switch, ventilation controller).
◯ YES ◯ NO ◯ MAYBE	6	**7.4b Exhaust Fans: Bathroom** *(Moderate Rehab only)* Install Energy Star–labeled bathroom fans that exhaust to the outdoors, are connected to a light switch, and are equipped with a humidistat sensor, timer, or other control (e.g., occupancy sensor, delay off switch, ventilation controller).
◯ YES ◯ NO ◯ MAYBE	M	**7.5a Exhaust Fans: Kitchen** *(New Construction and Substantial Rehab only)* Install power-vented fans or range hoods that exhaust to the exterior at the appropriate cfm rate, per ASHRAE 62.2, or install a central ventilation system with rooftop fans that meet efficiency criteria.
◯ YES ◯ NO ◯ MAYBE	6	**7.5b Exhaust Fans: Kitchen** *(Moderate Rehab only)* Install power-vented fans or range hoods that exhaust to the exterior at the appropriate cfm rate, per ASHRAE 62.2, or install a central ventilation system with rooftop fans that meet efficiency criteria.
◯ YES ◯ NO ◯ MAYBE	M	**7.6a Ventilation** *(New Construction and Substantial Rehab only)* Install a ventilation system for the dwelling unit capable of providing adequate fresh air per ASHRAE requirements for the building type.
◯ YES ◯ NO ◯ MAYBE	5	**7.6b Ventilation** *(Moderate Rehab only)* Install a ventilation system for the dwelling unit capable of providing adequate fresh air per ASHRAE requirements for the building type.
◯ YES ◯ NO ◯ MAYBE	M	**7.7 Clothes Dryer Exhaust** Clothes dryers must be exhausted directly to the outdoors using rigid-type duct work.
◯ YES ◯ NO ◯ MAYBE	M	**7.8 Combustion Equipment** Specify power-vented or direct vent equipment when installing new space and water-heating equipment in New Construction and any Substantial and Moderate Rehab projects.
◯ YES ◯ NO ◯ MAYBE	M	**7.9a Mold Prevention: Water Heaters** Provide adequate drainage for water heaters that includes drains or catch pans with drains piped to the exterior of the dwelling.
◯ YES ◯ NO ◯ MAYBE	M	**7.9b Mold Prevention: Surfaces** In bathrooms, kitchens, and laundry rooms, use materials that have durable, cleanable surfaces.
◯ YES ◯ NO ◯ MAYBE	M	**7.9c Mold Prevention: Tub and Shower Enclosures** Use non–paper-faced backing materials such as cement board, fiber cement board, or equivalent in bathrooms.

M = MANDATORY
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HEALTHY LIVING ENVIRONMENT (CONTINUED)

◯ YES ◯ NO ◯ MAYBE	M	**7.10 Vapor Barrier Strategies** *(New Construction and Rehab Projects with foundation work only)* Install vapor barriers that meet specified criteria appropriate for the foundation type.
◯ YES ◯ NO ◯ MAYBE	M	**7.11 Radon Mitigation** *(New Construction and Substantial Rehab only)* For New Construction in EPA Zone 1 and 2 areas, install passive radon-resistant features below the slab. For Substantial Rehab projects in those Zones, test for the presence of radon and mitigate if elevated levels exist.
◯ YES ◯ NO ◯ MAYBE	M	**7.12 Water Drainage** *(New Construction and Rehab projects replacing assemblies called out in Criterion only)* Provide drainage of water away from windows, walls, and foundations by implementing list of techniques.
◯ YES ◯ NO ◯ MAYBE	M	**7.13 Garage Isolation** Follow list of criteria for projects with garages, including: provide a continuous air barrier between the conditioned (living) space and any garage space to prevent the migration of any contaminants into the living space, and install a CO alarm inside the house in the room with a door to the garage *and* outside all sleeping areas.
◯ YES ◯ NO ◯ MAYBE	M	**7.14 Integrated Pest Management** Seal all wall, floor, and joint penetrations with low-VOC caulking or other appropriate sealing methods to prevent pest entry.
◯ YES ◯ NO ◯ MAYBE	M	**7.15 Lead-Safe Work Practices** *(Substantial and Moderate Rehab only)* For properties built before 1978, use lead-safe work practices consistent with the EPA's Renovation, Repair, and Painting Regulation and applicable HUD requirements.
◯ YES ◯ NO ◯ MAYBE	9	**7.16 Smoke-Free Building** Implement and enforce a no smoking policy in all common, individual living areas, and with a 25-foot perimeter around the exterior of all residential buildings.
		SUBTOTAL OPTIONAL POINTS

8: OPERATIONS + MAINTENANCE

◯ YES ◯ NO ◯ MAYBE	M	**8.1 Building Maintenance Manual** *(All Multifamily Projects)* Provide a building maintenance manual that addresses maintenance schedules and other specific instructions related to the building's green features.
◯ YES ◯ NO ◯ MAYBE	M	**8.2 Resident Manual** Provide a guide for homeowners and renters that explains the intent, benefits, use, and maintenance of green building features.
◯ YES ◯ NO ◯ MAYBE	M	**8.3 Resident and Property Manager Orientation** Provide a comprehensive walk-through and orientation for residents and property managers using the appropriate building maintenance or resident's manual.
◯ YES ◯ NO ◯ MAYBE	12	**8.4 Project Data Collection and Monitoring System** Collect and monitor project performance data on energy, water, and, if possible, healthy living environments for a minimum of five years.
		SUBTOTAL OPTIONAL POINTS
		TOTAL OPTIONAL POINTS