



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

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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

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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.



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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.



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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

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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

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3.3 Low-Impact Development *(New Construction only)*

Projects located on greenfields must meet the list of low-impact development criteria.

YES NO MAYBE

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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



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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 and Ducts

Size heating and cooling equipment in accordance with the Air Conditioning Contractors of America (ACCA) Manuals, Parts J, S, and D, or ASHRAE handbooks.

YES NO MAYBE

M

5.4 ENERGY STAR Appliances

If providing appliances, install ENERGY STAR-labeled clothes washers, dishwashers, and refrigerators.



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<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	ENERGY EFFICIENCY (CONTINUED) 5.5a Efficient Lighting: Interior Units Install efficient interior lighting, appropriate for project type, either ENERGY STAR Advanced Lighting Package (ALP) or lighting specified in EPA's MFHR program.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	5.5b Efficient Lighting: Common Areas and Emergency Lighting <i>(All Multifamily projects)</i> Install efficient lighting in common areas and for emergency lighting, appropriate for project type. For multifamily projects with three stories or fewer, install ENERGY STAR-labeled fixtures, LEDs, T8 fixtures with electronic ballasts or better, or equivalent. For multifamily projects with four stories or more, install lighting specified in EPA's MFHR program.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	5.5c Efficient Lighting: Exterior Install efficient exterior lighting, appropriate for project type: either ENERGY STAR compact fluorescents or LEDs, or lighting specified in EPA's MFHR program.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	M	5.6a Electricity Meter <i>(New Construction and Substantial Rehab only)</i> Install individual or sub-metered electric meters in all dwelling units.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	3	5.6b Electricity Meter <i>(Moderate Rehab only)</i> Install individual or sub-metered electric meters in all dwelling units.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> 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.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> 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.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> 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

<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> 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
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> 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.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> 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.
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	5 max	6.4 Construction Waste Management: Optional Determine percentage of waste diversion and earn all points below that threshold: <ul style="list-style-type: none"> • 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]



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MATERIALS (CONTINUED)

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.

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.



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HEALTHY LIVING ENVIRONMENT (CONTINUED)

<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	<p>4</p>	<p>7.3 Environmentally Preferable Flooring: Alternative Sources Use non-vinyl, non-carpet floor coverings in all rooms of building.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	<p>M</p>	<p>7.4a Exhaust Fans: Bathroom <i>(New Construction and Substantial Rehab only)</i> 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).</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	<p>6</p>	<p>7.4b Exhaust Fans: Bathroom <i>(Moderate Rehab only)</i> 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).</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	<p>M</p>	<p>7.5a Exhaust Fans: Kitchen <i>(New Construction and Substantial Rehab only)</i> 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.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	<p>6</p>	<p>7.5b Exhaust Fans: Kitchen <i>(Moderate Rehab only)</i> 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.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	<p>M</p>	<p>7.6a Ventilation <i>(New Construction and Substantial Rehab only)</i> Install a ventilation system for the dwelling unit capable of providing adequate fresh air per ASHRAE requirements for the building type.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	<p>5</p>	<p>7.6b Ventilation <i>(Moderate Rehab only)</i> Install a ventilation system for the dwelling unit capable of providing adequate fresh air per ASHRAE requirements for the building type.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	<p>M</p>	<p>7.7 Clothes Dryer Exhaust Clothes dryers must be exhausted directly to the outdoors using rigid-type duct work.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	<p>M</p>	<p>7.8 Combustion Equipment Specify power-vented or closed-combustion equipment when installing new space and water-heating equipment in New Construction and any Substantial and Moderate Rehab projects.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	<p>M</p>	<p>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.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	<p>M</p>	<p>7.9b Mold Prevention: Surfaces In bathrooms, kitchens, and laundry rooms, use materials that have durable, cleanable surfaces.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	<p>M</p>	<p>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.</p>
<input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> MAYBE	<p>M</p>	<p>7.10 Vapor Barrier Strategies <i>(New Construction and Rehab Projects with foundation work only)</i> Install vapor barriers that meet specified criteria appropriate for the foundation type.</p>



M = MANDATORY
= AVAILABLE OPTIONAL POINTS

HEALTHY LIVING ENVIRONMENT (CONTINUED)

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 *(Moderate and Substantial 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

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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