

Single Family GreenPoint Checklist

date: _____



The GreenPoint checklist tracks green features incorporated into the home. The recommended minimum requirements for a green home are: Earn a total of 50 points or more; obtain the following minimum points per category: Energy (11), Indoor Air Quality/Health (5), Resources (6), and Water (3); and meet the prerequisites A.3.a (50% construction waste diversion) and N.1 (Incorporate Green Points checklist in blueprints).

The green building practices listed below are described in the New Home Construction Green Building Guidelines, available at www.builditgreen.org.

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ENTER PROJECT NAME	Community	Energy	IAQ/Health	Resources	Water
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A. SITE	Possible Points				
1. Protect Native Soil and Minimize Disruption of Existing Plants & Trees					
<input type="checkbox"/> a. Protect Native Topsoil from Erosion and Reuse after Construction	1				1
<input type="checkbox"/> b. Limit and Delineate Construction Footprint for Maximum Protection					1
2. Deconstruct Instead of Demolishing Existing Buildings On Site				3	
3. Recycle Job Site Construction Waste (Including Green Waste)					
<input type="checkbox"/> a. Minimum 50% Waste Diversion by Weight (Recycling or Reuse) - <i>Required</i>				R	
<input type="checkbox"/> b. Minimum 65% Diversion by Weight (Recycling or Reuse)				2	
<input type="checkbox"/> c. Minimum 80% Diversion by Weight (Recycling or Reuse)				2	
4. Use Recycled Content Aggregate (Minimum 25%)					
<input type="checkbox"/> a. Walkway and Driveway				1	
<input type="checkbox"/> b. Roadway Base				1	

B. LANDSCAPING	Possible Points				
1. Construct Resource-Efficient Landscapes					
<input type="checkbox"/> a. No Invasive Species Listed by Cal-IPC Are Planted					1
<input type="checkbox"/> b. No Plant Species Will Require Hedging				1	
<input type="checkbox"/> c. 75% of Plants Are California Natives or Mediterranean Species					1
<input type="checkbox"/> 2. Use Fire-Safe Landscaping Techniques	1				
3. Minimize Turf Areas in Landscape Installed by Builder					
<input type="checkbox"/> a. All Turf Will Have a Water Requirement Less than or Equal to Tall Fescue					2
<input type="checkbox"/> b. Turf Shall Not Be Installed on Slopes Exceeding 10% or in Areas Less than 8 Feet Wide					2
<input type="checkbox"/> c. Turf is <33% of Landscaped Area					2
<input type="checkbox"/> d. Turf is <10% of Landscaped Area					2
<input type="checkbox"/> 4. Plant Shade Trees		1			1
<input type="checkbox"/> 5. Implement Hydrozoning: Group Plants by Water Needs					1
6. Install High-Efficiency Irrigation Systems					
<input type="checkbox"/> a. System Uses Only Low-Flow Drip, Bubblers, or Low-flow Sprinklers					1
<input type="checkbox"/> b. System Has Smart (Weather-Based) Controllers					2
<input type="checkbox"/> 7. Apply Two Inches of Compost in the Top 6 to 12 Inches of Soil					2
<input type="checkbox"/> 8. Mulch All Planting Beds to the Greater of 2 Inches or Local Water Ordinance Requirement					1
<input type="checkbox"/> 9. Use 50% Salvaged or Recycled-Content Materials for 50% of Non-Plant Landscape Elements				1	
<input type="checkbox"/> 10. Reduce Light Pollution by Shielding Fixtures and/or Directing Light Downward	1				

C. FOUNDATION	Possible Points				
1. Incorporate Recycled Flyash in Concrete					
<input type="checkbox"/> a. Minimum 20% Flyash				1	
<input type="checkbox"/> b. Minimum 25% Flyash				1	
<input type="checkbox"/> 2. Use Frost-Protected Shallow Foundation in Cold Areas (C.E.C. Climate Zone 16)					3
<input type="checkbox"/> 3. Use Radon Resistant Construction (In At-Risk Locations Only)			1		

D. STRUCTURAL FRAME & BUILDING ENVELOPE	Possible Points				
1. Apply Optimal Value Engineering					
<input type="checkbox"/> a. 2x4 Studs at 24-Inch On Center Framing				1	
<input type="checkbox"/> b. Door and Window Headers Sized for Load				1	
<input type="checkbox"/> c. Use Only Jack and Cripple Studs Required for Load				1	

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2. Use Engineered Lumber					
<input type="checkbox"/> a. Beams and Headers				1	
<input type="checkbox"/> b. Insulated Engineered Headers		1			
<input type="checkbox"/> c. Wood I-Joists or Web Trusses for Floors				1	
<input type="checkbox"/> d. Wood I-Joists or Rafters				1	
<input type="checkbox"/> e. Engineered or Finger-Jointed Studs for Vertical Applications				1	
3. Use FSC-Certified Wood					
<input type="checkbox"/> a. Dimensional Studs: Minimum 40%				2	
<input type="checkbox"/> b. Dimensional Studs: Minimum 70%				2	
<input type="checkbox"/> c. Panel Products: Minimum 40%				1	
<input type="checkbox"/> d. Panel Products: Minimum 70%				1	
<input type="checkbox"/> 4. Design Energy Heels on Trusses (75% of Attic Insulation Height at Outside Edge of Exterior Wall)		1			
<input type="checkbox"/> 5. Design Trusses to Accommodate Ductwork		1			
6. Use Oriented Strand Board (OSB)					
<input type="checkbox"/> a. Subfloor				1	
<input type="checkbox"/> b. Sheathing				1	
<input type="checkbox"/> 7. Use Recycled-Content Steel Studs for 90% of Interior Wall Framing				1	
8. Use Solid Wall Systems (Includes SIPs, ICFs, & Any Non-Stick Frame Assembly)					
<input type="checkbox"/> a. Floors		2		2	
<input type="checkbox"/> b. Walls		2		2	
<input type="checkbox"/> c. Roofs		2		2	
<input type="checkbox"/> 9. Thermal Mass Walls: 5/8-Inch Drywall on All Interior Walls or Walls Weigh more than 40 lb/cu.ft.		1			
10. Design and Build Structural Pest Controls					
<input type="checkbox"/> a. Install Termite Shields & Separate All Exterior Wood-to-Concrete Connections by Metal or Plastic Fasteners/Dividers				1	
<input type="checkbox"/> b. All New Plants Have Trunk, Base, or Stem Located At Least 36 Inches from Foundation				1	
11. Reduce Pollution Entering the Home from the Garage					
<input type="checkbox"/> a. Tightly Seal the Air Barrier between Garage and Living Area			1		
<input type="checkbox"/> b. Install Separate Garage Exhaust Fan			1		
12. Install Overhangs and Gutters					
<input type="checkbox"/> a. Minimum 16-Inch Overhangs and Gutters				1	
<input type="checkbox"/> b. Minimum 24-Inch Overhangs and Gutters		1			

E. EXTERIOR FINISH	Possible Points				
<input type="checkbox"/> 1. Use Recycled-Content (No Virgin Plastic) or FSC-Certified Wood Decking				2	
<input type="checkbox"/> 2. Install a Drainage Plane (Rain Screen Wall System)				2	
<input type="checkbox"/> 3. Use Durable and Non-Combustible Siding Materials				1	
<input type="checkbox"/> 4. Select Durable and Non-Combustible Roofing Materials				2	

F. PLUMBING	Possible Points				
1. Distribute Domestic Hot Water Efficiently					
<input type="checkbox"/> a. Insulate Hot Water Pipes from Water Heater to Kitchen					1
<input type="checkbox"/> b. Insulate All Hot Water Pipes OR Install On-Demand Hot Water Circulation System in conjunction with F.1.a Insulate Hot Water Pipes from Water Heater to Kitchen		1			1
<input type="checkbox"/> c. Locate the Water Heater within 25 feet of All Hot Water Fixtures and Appliances					1
<input type="checkbox"/> d. Use Engineered Parallel Piping					1
<input type="checkbox"/> 2. Install Only High Efficiency Toilets (Dual-Flush or <=1.3 gpf)					3

G. APPLIANCES	Possible Points				
1. Install ENERGY STAR Dishwasher					
<input type="checkbox"/> a. ENERGY STAR		1			
<input type="checkbox"/> b. Dishwasher Uses No More than 6.5 Gallons/Cycle		1			1
<input type="checkbox"/> 2. Install ENERGY STAR Clothes Washing Machine with Water Factor of 6 or Less		1			3
3. Install ENERGY STAR Refrigerator					
<input type="checkbox"/> a. ENERGY STAR: 15% above Federal Minimum		1			
<input type="checkbox"/> b. Super-Efficient Home Appliance Tier 2: 25% above Federal Minimum		1			
<input type="checkbox"/> 4. Install Built-In Recycling Center					2

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H. INSULATION		Possible Points			
1. Install Insulation with 75% Recycled Content					
<input type="checkbox"/>	a. Walls and/or Floors				1
<input type="checkbox"/>	b. Ceilings				1
2. Install Insulation that is Low-Emitting (Certified Section 01350)					
<input type="checkbox"/>	a. Walls and/or Floors			1	
<input type="checkbox"/>	b. Ceilings			1	
<input type="checkbox"/>	3. Pre-Drywall Inspection Shows Quality Installation of Insulation		1		

I. HEATING, VENTILATION & AIR CONDITIONING		Possible Points			
<input type="checkbox"/>	1. Design and Install HVAC System to ACCA Manual J, D, and S Recommendations		4		
2. Install Sealed Combustion Units					
<input type="checkbox"/>	a. Furnaces			2	
<input type="checkbox"/>	b. Water Heaters			2	
<input type="checkbox"/>	3. No Fireplace or Sealed Gas Fireplace with Efficiency Rating Not Less Than 60%			1	
<input type="checkbox"/>	4. Install ENERGY STAR Ceiling Fans with CFLs in Living Areas and Bedrooms		1		
5. Install Mechanical Ventilation System for Nighttime Cooling (Points are Cumulative up to 3)					
<input type="checkbox"/>	a. Whole House Fan		1		
<input type="checkbox"/>	b. Automatically Controlled Integrated System		2		
<input type="checkbox"/>	c. Integrated System with Variable Speed Control		3		
<input type="checkbox"/>	6. Install Air Conditioning with Non-HCFC Refrigerants		1		
7. Design and Install Effective Ductwork					
<input type="checkbox"/>	a. Install HVAC Unit and Ductwork within Conditioned Space		3		
<input type="checkbox"/>	b. Use Duct Mastic on All Duct Joints and Seams		1		
<input type="checkbox"/>	c. Install Ductwork under Attic Insulation (Buried Ducts)		1		
<input type="checkbox"/>	d. Pressure Balance the Ductwork System for Master Bedroom		1		
<input type="checkbox"/>	e. Protect Ducts during Construction and Clean All Ducts before Occupancy			1	
<input type="checkbox"/>	8. Install High Efficiency HVAC Filter (MERV 6+)			1	
<input type="checkbox"/>	9. Install Zoned, Hydronic Radiant Heating with Slab Edge Insulation		1	1	
10. Install Mechanical Ventilation System					
<input type="checkbox"/>	a. Any Whole House Ventilation System That Meets ASHRAE 62.2		1	2	
<input type="checkbox"/>	b. Install ENERGY STAR Bathroom Fan			1	
<input type="checkbox"/>	c. All Bathroom Fans Are on Timer or Humidistat			1	
<input type="checkbox"/>	11. Use Low-Sone Range Hood Vented to the Outside			1	
<input type="checkbox"/>	12. Install Carbon Monoxide Alarm(s)			1	

J. BUILDING PERFORMANCE		Possible Points			
0%	1. Design and Build High Performance Homes (2 points for each 1% above T-24, up to 30 pts) <i>Enter the percent above Title 24 in the cell at left. Any value over 15% will automatically earn 30 points.</i>		30		
<input type="checkbox"/>	2. House Obtains ENERGY STAR with Indoor Air Package Certification			5	2
3. Inspection and Diagnostic Evaluations					
<input type="checkbox"/>	a. Third Party Energy and Green Building Review of Home Plans		1	1	1
<input type="checkbox"/>	b. Blower Door Test Performed		1		
<input type="checkbox"/>	c. House Passes Combustion Safety Backdraft Test			1	

K. RENEWABLE ENERGY		Possible Points			
<input type="checkbox"/>	1. Pre-Plumb for Solar Hot Water Heating		4		
<input type="checkbox"/>	2. Install Solar Water Heating System		10		
<input type="checkbox"/>	3. Install Wiring Conduit for Future Photovoltaic Installation & Provide 200 ft ² of South-Facing Roof		2		
4. Install Photovoltaic (PV) Panels					
<input type="checkbox"/>	a. 1.2 kW System		6		
<input type="checkbox"/>	b. 2.4 kW System		6		
<input type="checkbox"/>	c. 3.6 kW or more		6		

ENTER PROJECT NAME		Community	Energy	IAQ/Health	Resources	Water
L. FINISHES		Possible Points				
<input type="checkbox"/>	1. Provide Permanent Walk-Off Mats and Shoe Storage at Home Entrances			1		
<input type="checkbox"/>	2. Use Low/No-VOC Paint					
<input type="checkbox"/>	a. Low-VOC Interior Wall/Ceiling Paints (<50 gpl VOCs (Flat) and <150 gpl VOCs (Non-Flat))			1		
<input type="checkbox"/>	b. Zero-VOC: Interior Wall/Ceiling Paints (<5 gpl VOCs (Flat))			3		
<input type="checkbox"/>	3. Use Low VOC, Water-Based Wood Finishes (<150 gpl VOCs)			2		
<input type="checkbox"/>	4. Use Low-VOC Construction Adhesives (<70 gpl VOCs) for All Adhesives			2		
<input type="checkbox"/>	5. Use Recycled-Content Paint				1	
6. Use Environmentally Preferable Materials for Interior Finish: A) FSC-Certified Wood, B) Reclaimed Lumber, C) Rapidly Renewable D) Recycled-Content or E) Finger-Jointed At Least 50% of Each Material (1 pt each):						
<input type="checkbox"/>	a. Cabinets				1	
<input type="checkbox"/>	b. Interior Trim				1	
<input type="checkbox"/>	c. Shelving				1	
<input type="checkbox"/>	d. Doors				1	
<input type="checkbox"/>	e. Countertops				1	
7. Reduce Formaldehyde in Interior Finish (Section 01350) for At Least 50% of Each Material Below:						
<input type="checkbox"/>	a. Cabinets			1		
<input type="checkbox"/>	b. Interior Trim			1		
<input type="checkbox"/>	c. Shelving			1		
<input type="checkbox"/>	d. Subfloor			1		
<input type="checkbox"/>	8. After Installation of Finishes, Test of Indoor Air Shows Formaldehyde Level <27ppb			3		

M. FLOORING		Possible Points				
1. Use Environmentally Preferable Flooring: A) FSC-Certified or Reclaimed Wood, B) Rapidly Renewable Flooring Materials, C) Recycled-Content Ceramic Tiles, D) Exposed Concrete as Finished Floor or E) Recycled-Content Carpet. <i>Note: Flooring Adhesives Must Have <50 gpl VOCs.</i>						
<input type="checkbox"/>	a. Minimum 15% of Floor Area				1	
<input type="checkbox"/>	b. Minimum 30% of Floor Area				1	
<input type="checkbox"/>	c. Minimum 50% of Floor Area				1	
<input type="checkbox"/>	d. Minimum 75% of Floor Area				1	
<input type="checkbox"/>	2. Thermal Mass Floors: Floor Covering Other than Carpet on 50% or More of Concrete Floors		1			
<input type="checkbox"/>	3. Flooring Meets Section 01350 or CRI Green Label Plus Requirements (50% Minimum)			2		

N. OTHER		Possible Points				
<input type="checkbox"/>	1. Incorporate Green Points Checklist in Blueprints - <i>Required</i>				R	
<input type="checkbox"/>	2. Develop Homeowner Manual of Green Features/Benefits		1	1		1
3. Community Design Measures & Local Priorities: See the Community Planning & Design section in Chapter 4 of the New Home Guidelines for measures. Maximum of 20 points for suggested measures. Local requirements may also be listed here.						
0	Enter description here					
0	Enter description here					
0	Enter description here					
0	Enter description here					
4. Innovation: List innovative measures that meet the green building objectives of the Guidelines. Enter up to a maximum combined total of 20 pts. See Innovation Checklist for suggested measures.						
0	Innovation in Community : Enter description here					
0	Innovation in Energy : Enter description here					
0	Innovation in IAQ/Health : Enter description here					
0	Innovation in Resources : Enter description here					
0	Innovation in Water : Enter description here					

Summary					
Points Achieved from Specific Categories			0	0	0
Total Points Achieved			0		
Project has not yet met the recommended minimum requirements					
- Total Project Score of At Least 50 Points					
- Minimum points in specific categories: Energy (11), IAQ/Health (5), Resources (6), Water (3)					
- Required measures A.3.a and/or N.1					