CITY OF ALBANY SUSTAINABILITY COMMITTEE & PLANNING AND ZONING COMMISSION JOINT MEETING STAFF REPORT

Agenda date: 10/21/09

Prepared by: AC Reviewed by: JB

ITEM/

6-1

SUBJECT:

Recommendation to the City Council on Amendments to the City of Albany Green

Building Standards of Compliance and Checklists

STAFF RECOMMENDATION

Recommend to the City Council that they approve amendments to the City of Albany Green Building Standards of Compliance and Checklists.

BACKGROUND

In December 2006, the City Council adopted "Green Building and Bay Friendly Landscaping," "Construction and Demolition Debris," and "Water Reuse" Ordinances. The Green Building Ordinance was implemented as a mandatory program beginning July 1, 2007. All projects that require design review are required to meet a green points threshold as a part of the approval. See Attachment 1 for current standards of compliance.

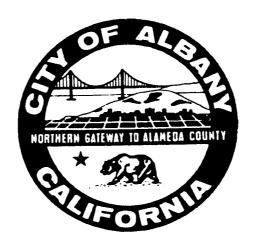
DISCUSSION

The Planning and Zoning Commission reviewed the Green Building program on November 28, 2008 and June 6, 2009. Changes to the standards of compliance reflect updated checklists and an increase in minimum thresholds for home remodel projects. The proposed revisions also incorporate elements of the California Green Building Code that has been adopted by the California Building Standards Commission. In addition, the proposed changes incorporate new state regulations for the installation and maintenance of water efficient landscaping.

Also attached is a memorandum from the California Attorney General's Office that summarizes local government green building programs. The memo is useful for comparing the level of green building required by various cities.

For additional information on green building programs, the following web links provide information on the checklists, including detailed reference guides:

http://www.stopwaste.org/home/index.asp?page=269 http://www.usgbc.org/DisplayPage.aspx?CMSPageID=222



GREEN BUILDING STANDARDS OF COMPLIANCE

&

CHECKLISTS

City of Albany Green Building Standards of Compliance

Proposed Standards: Effective July 3, 2007

		Building Improvements						
Projec	ct Description	Checklist Required	Minimum Threshold	Third-party Verification				
ects	New construction <u>less</u> than 5,000 sq ft	LEED-NC Checklist	Maximum points practicable	At plan check only				
ed Proje	New construction more than 5,000 sq ft	(Version 2.2)	Gold (39 points)	US Green Bldg Council				
City Sponsored Projects	Renovation <u>less</u> than 5,000 sq ft	LEED-CI Checklist	Maximum points practicable	At plan check only				
City	Renovation <u>more</u> than 5,000 sq ft	(Version 2.0)	Gold (32 points)	US Green Bldg Council				
tion &	New construction <u>less</u> than 5,000 sq ft	LEED-NC Checklist	Maximum points practicable	At plan check only				
onstruc n Projec	New construction more than 5,000 sq ft	(Version 2.2)	Gold (39 points)	US Green Bldg Council				
Commercial Construction & Renovation Projects	Renovation <u>less</u> than 5,000 sq ft	LEED-CI Checklist	Maximum points practicable	At plan check only				
Comm	Renovation more than 5,000 sq ft	(Version 2.0)	Gold (32 points)	US Green Bldg Council				
esidential	New construction	Single-Family Greenpoint Checklist (2006 Edition)	50 Points					
Single Family Residential	Renovation subject to Design Review	Green Points Rating System for Remodeling projects (2004 version + City Point Incentives)	50 Points	At plan check only				
amily ential	New construction or renovation of less than 5 units	renovation of <u>less</u> than 5 units Multifamily connecist Checklist		City Staff and/or certified 3rd party				
Multi-family Residential	New construction or renovation of more than 5 units	(2005 Edition version v.2)	Minimum Points Standard	inspection				
Mixed Use	Consult with Planning Divison staff							

City of Albany Green Building Standards of Compliance Proposed Standards: Effective July 3, 2007

	Landscaping Improvements					
Project Description	Checklist Required	Minimum Threshold	Third-party Verification (Field Verification required of all projects)			
City Sponsored Projects	Bay-Friendly	Minimum Points	At plan check only			
Commercial Construction & Renovation Projects	Landscaping Checklist	Standard	At plan thete only			
Single Family Residential	Not Required	Not Required	Not Required			
Multi-family Residential	Bay-Friendly	Minimum Points	At plan check only			
Mixed Use	Landscaping Checklist	Standard	. A plan shook shiy			

Prepared for City Council Review: June 18, 2007



Green Building Program Rating System for Remodeling Projects Supplemental Application Form

Project Address:					
Checklist Prepared By:					
Date Prepared:					
		INPUT	Resources	Energy	IAQ/Health
A. Site					
1. Recycle Job Site Construction & Demolition Waste					
65% = 1 point; 75% = 2 points; 80% = 4 points	up to 4 Reso	ource pts			
2. Salvage Reusable Building Materials	4 Resource pts	y=yes			
3. Remodel for Mixed Use, Adaptive Reuse, and				1	
Historic Preservation	4 Resource pts	y=yes			
4. Protect Native Soil	2 Resource pts	y=yes			
5. Minimize Disruption of Existing Plants & Trees	1 Resource pt	y=yes			
6. Implement Construction Site Stormwater Practices	2 Resource pts	y=yes			
7. Protect Water Quality with Landscape Design	2 Resource pts	y=yes			
8. Design Resource-Efficient Landscapes and Gardens	4 Resource pts	y=yes		1	
9. Reuse Materials/Use Recycled Content Materials					
for Landscape Areas	2 Resource pts	y=yes			
10. Install High-Efficiency Irrigation Systems	2 Resource pts	y=yes			
11. Provide for On-Site Water Catchment / Retention	2 Resource pts	y=yes			
B. Foundation					
Incorporate Recycled Flyash in Concrete					
25% Recycled Flyash = 2 points; Add 1 point for every 10%					
increase of flyash, up to 5 points	up to 5 Reso	ource pts	1		
2. Use Recycled Content Aggregate	2 Resource pts	y=yes			
3. Insulate Foundation/Slab before backfill	3 Energy pts	y=yes			

C. Structural Frame					
1. Substitute Solid Sawn Lumber with Engineered Lumber	3 Resource pts	y=yes			
2. Use FSC Certified Wood for framing					
(For every 10% of FSC lumber used = 2 points, up to 10)	up to 10 Reso	urce pts.		1	
Use Wood I-Joists for Floors and Ceilings	2 Resource pts	y=yes			
4. Use Web Floor Trusses	2 Resource pts	y=yes			
5. Design Energy Heels on Trusses 6" or more	2 Energy pts	y=yes			
6. Use Finger-Jointed Studs for Vertical Applications	2 Resource pts	y=yes			
7. Use Engineered Studs for Vertical Applications	2 Resource pts	y=yes			
8. Use Recycled Content Steel Studs for Interior Framing	2 Resource pts	y=yes			
9. Use Structural Insulated Panels (SIPs)			4		
a. Floors	3 Energy pts	y=yes			
b. Wall	3 Energy pts	y=yes	4		
c. Roof	3 Energy pts	y=yes	_		
10. Apply Advanced Framing Techniques	4 Resource pts	v=ves	1	I	1

		INI	PUT	Resources	Energy	IAQ/Health
11. Use Reclaimed Lumber for Non Structural Applications	3 Resource pts	y=yes	0,	Nesources	- herey	IAGIIIGAIU.
12. Use OSB	o	, , <u> </u>				
a. Subfloors	1 Resource pt	y=yes				
b. Sheathing	1 Resource pt	y=yes				
D. Exterior Finish						
Use Sustainable Decking Materials						
a. Recycled content	3 Resource pts	y=yes				
b. FSC Certified Wood	3 Resource pts	y=yes				
2. Use Treated Wood That Does Not Contain Chromium/Arsenic	1 IAQ/Health pt	y=yes				
3. Install House Wrap under Siding	1 IAQ/Health pt	y=yes				
4. Use Fiber-Cement Siding Materials		y=yes				
E. Plumbing						
1. Install Water Heater Jacket	1 Energy pt	y=yes				
2. Insulate Hot and Cold Water Pipes	2 Energy pts	y=yes				
3. Retrofit all Faucets and Showerheads with Flow Reducers	-, .					
a. Faucets (1 point each, up to 2 points)	Up to 2 Resou	rce pts.				
b. Showerheads (1 point each, up to 2 points)	Up to 2 Resou	ırce pts.				
4. Replace Toilest with Ultra-Low Flush Toilets						
(1 point each, up to 3 points)	Up to 3 Resou	irce pts.				
5. Install Chlorine Filter on Showerhead	1 IAQ/Health pt	y=yes				
6. Convert Gas to Tankless Water Heater	4 Energy pts	y=yes				
7. Install Water Filtration Units at Faucets						
(2 points each, up to 4 points) 8. Install On-Demand Hot Water Circulation Pump	Up to 4 IAQ/He	· ·				
o. matan on bornario not trator or orionation i amp	4 Resource pts	y=yes				
F. Electrical						
Install Compact Fluorescent Light Bulbs (CFLs)						
(6 bulbs=2 points, 10 bulbs =3 points, 12 bulbs = 4 points)	Up to 4 Ene	erav pts.				
2. Install IC-AT Recessed Fixtures with CFLs (1 point each, up to	- ,					
5 points)	Up to 5 Ene	rgy pts.				
3. Install Lighting Controls (1 point per fixture, up to 4 points)	Up to 4 Ene	rgy pts.				
4. Install High Efficiency Ceiling Fans with CFLs						
(1 point each, up to 4 points)	Up to 4 Ene	rgy pts.				
G. Appliances						
Install Energy Star Dishwasher	1 Energy pt	y=yes				
2. Install Washing Machine with Water and Energy			I	I		
Conservation Features	1 Energy pt	y=yes		I		
3.Install Energy Star Refrigerator 4. Install Built-In Recycling Center	1 Energy pt	y=yes				3
4. Install Built in Neoyoling Conte	3 Resource pts	y=yes				
H. Insulation						
Upgrade Insulation to Exceed Title 24 Requirements			r			
a. Walls	2 Energy pts	y=yes			.	
b. Ceilings	2 Energy pts	y=yes		ļ	J	
2. Install Floor Insulation over Crawl Space	4 Energy pts	y=yes				
Install Recycled-Content, Fiberglass Insulation with						
No Added Formaldehyde	3 IAQ/Health pts	y=yes				

			INPUT	Resources	Energy	IAQ/Health
4. Use Advanced Infiltration Reduction Practices	2 Energy pts	y=yes				
5. Use Cellulose Insulation						
a. Walls	4 Resource pts	y=yes				
b. Ceilings	4 Resource pts	y=yes				
6. Alternative Insulation Products (Cotton, spray-foam)						
a. Walls	4 Resource pts	y=yes				
b. Ceilings	4 Resource pts	y=yes				
I. Windows						
1. Install Energy-Efficient Windows						
a. Double-Paned	1 Energy pt	y=yes				
b. Low-Emissivity (Low-E)	2 Energy pts	y=yes				
c. Low. Conductivity Frames	2 Energy pts	y=yes				
2. Install Low Heat Transmission Glazing	1 Energy pt	y=yes				
	0,,					
L Heating Ventilation and Air Conditioning						
J. Heating Ventilation and Air Conditioning			ļ			
1. Use Duct Mastic on All Duct Joints	2 Energy pts	y=yes				
Install Ductwork within Conditioned Space	3 Energy pts	y≃yes				
3. Vent Range Hood to the Outside	1 IAQ/Health pt	y=yes				
Clean all Ducts Before Occupancy	2 IAQ/Health pts	y=yes				i
5. Install Solar Attic Fan	2 Energy pts	y=yes				
6. Install Attic Ventilation Systems	1 Energy pt	y=yes				
7. Install Whole House Fan	4 Energy pts	y=yes		ļ	ŀ	
8. Install Sealed Combustion Units						
a. Furnaces	3 IAQ/Health pts	y=yes				
b. Water Heaters	3 IAQ/Health pts	y=yes				
9. Replace Wall-Mounted Electric and Gas Heaters with						
Through-the-Wall Heat Pumps	3 Energy pts	y=yes				
10. Install 13 SEER/11 EER or higher AC with a TXV	3 Energy pts	y=yes				•
11. Install AC with Non-HCFC Refrigerants	2 Resource pts	y=yes				
12. Install 90% Annual Fuel Utilization Efficiency (AFUE) Furnace	2 Energy pts	y=yes				
13. Retrofit Wood Burning Fireplaces						
 a. Install EPA certified wood stoves/inserts 	1 IAQ/Health pt	y=yes				
b. Install/Replace Dampers	1 Energy pt	y=yes				
c. Install Airtight Doors	1 Energy pt	y=yes				
14. Install Zoned, Hydronic Radiant Heating	3 Energy pts	y=yes				
15. Install High Efficiency Filter	4 IAQ/Health pts	y=yes]		
16. Install Heat Recovery Ventilation Unit (HRV)	5 IAQ/Health pts	y=yes]		
17. Install Separate Garage Exhaust Fan	3 IAQ/Health pts	y=yes				
K. Renewable Energy and Roofing						
Pre-Plumb for Solar Water Heating	4 Energy pts	V=V00			I	T
Install Solar Water Heating System	10 Energy pts	y=yes		ł		
Pre-Wire for Future Photovoltaic (PV) Installation	= -	y=yes				
	4 Energy pts	y=yes				
4. Install Photovoltaic (PV) System (1.3 km = 6 points, 3.4 km = 12 points, 3.6 km = 18 points)	Up to 18 Ene	oray oto]]
(1.2 kw = 6 points, 2.4 kw = 12 points, 3.6 kw = 18 points)						1
Select Safe and Durable Roofing Materials Install Radiant Barrier	1 Resource pt	y=yes			1	
r. mətali Naulant Dambi	3 Energy pts	y=yes	L	j	ŀ	I

L. Natural Heating and Cooling 1. Incorporate Passive Solar Heating 2. Install Overhangs or Awnings over South Facing Windows 3. Plant Deciduous Trees on the West and South Sides M. Indoor Air Quality and Finishes 1. Use Low/No-VOC Paint 2. Use Low/No-VOC Paint 3. Use Low/No-VOC Paint 4. Use Salvaged Materials for Interior Finishes 5. Use Engineered Sheet Goods with no added Urea Formaldehyde 6. Use Exterior Grade Plywood for Interior Uses 7. Seal all Exposed Particleboard or MDF 8. Use FSC Certified Materials for Interior Finish 9. Use Finger-Jointed or Recycled-Content Trim 10. Install Whole House Vacuum System 11. Install Whole House Vacuum System 22. Use Rapidty Renewable Flooring Materials 3. Use Recycled Content Ceramic Tiles 4. Resource pts 7. Seal Sexposed Concrete as Finished Floor 9. Use Finger-Jointed or Recycled-Content Trim 10. Install Whole House Vacuum System 8. Resource pts 9-yes 9. Sexposed Concrete as Finished Floor 10. Install Recycled Content Ceramic Tiles 11. Resource pts 9-yes 12. Use Exposed Concrete as Finished Floor 13. Install Recycled Content Carpet with Low VOCs 14. Resource pts 9-yes 9. Vese 9. Ves				INPUT	Resources	Energy	IAQ/Health
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	2. Additions les than 200sq.ft. or resulting in less than 1,500sq.ft.		· · -				
3. Seismic upgrade of existing building 25 Resource pts y=yes	Seismic upgrade of existing building	•	-				
4. For having a hybrid or zero emissions vehicle 2 IAQ/Health pts y=yes	4. For having a hybrid or zero emissions vehicle		· · · -				
5. For having no automobile 5 Resource pts y=yes		· ·	· · -				
6. Plant more than one street tree when feasible 2 IAQ/Health pts y=yes	6. Plant more than one street tree when feasible	•	· · ·				
7. Earhquake kit 2 IAQ/Health pts y=yes	7. Earhquake kit	2 IAQ/Health pts	· · -				

G: data/progs/green building guide lines/remodelers/green points final 2.12.04 protected.x ls



New Home Green Points Checklist Supplemental Application Form

Project A	ddress:					
Checklis	Prepared By:					
Date Pre						
Date File	pareu.	>	T	present of record and secure		
		Community	_	AQ/Health	Resources	
ENIE	R PROJECT NAME	E E	Energy	Ĕ	nos	Water
			4		L	3
A. SITE			Po	ssible Po	ints	
	Protect Native Soil and Minimize Disruption of Existing Plants & Trees					
	a. Protect Native Topsoil from Erosion and Reuse after Construction	1.				1
	b. Limit and Delineate Construction Footprint for Maximum Protection	ence consideration of the co	managa and an analysis of the same and	management that the		
	2. Deconstruct Instead of Demolishing Existing Buildings On Site	A 1000000 MARCO COCCORDO	appearance of the same and the same and the		3	
	3. Recycle Job Site Construction Waste (Including Green Waste)					
	a. Minimum 50% Waste Diversion by Weight (Recycling or Reuse) - Required				R	
1	b. Minimum 65% Diversion by Weight (Recycling or Reuse)				2	
	c. Minimum 80% Diversion by Weight (Recycling or Reuse)	No. of the second secon			2	
	4. Use Recycled Content Aggregate (Minimum 25%)	non commentative de de la commentación		eganisa saarina saarin	Mark 2 11 In the Rev Common	and the second second second second
	a. Walkway and Driveway				1,	
	b. Roadway Base	Contraction and the second second second	antonomic american con microsim — ##	gran was a management would be such	1	
Account and Account for the International Control				PARTIES TO THE PARTY OF THE PAR		
B. LANDS		construence a management and con-	Po	ssible Po	oints	and the second second
	1. Construct Resource-Efficient Landscapes	annous discourse on a side of	and reported the state of the s			
	a. No Invasive Species Listed by Cal-IPC Are Planted					1
	b. No Plant Species Will Require Hedging				1.	
	c. 75% of Plants Are California Natives or Mediterranean Species				ng ta a maja dalah tida dalah kecamatan dalah da	1.
	2. Use Fire-Safe Landscaping Techniques	1				
	3. Minimize Turf Areas in Landscape Installed by Builder			- July many grap manages promise	a canada manada ji madalari dalah da 100 dalah da	and the second s
	a. All Turf Will Have a Water Requirement Less than or Equal to Tall Fescue					2
	b. Turf Shall Not Be Installed on Slopes Exceeding 10% or in Areas Less than 8 Feet Wide					2
	c. Turf is <33% of Landscaped Area					2
	d. Turf is <10% of Landscaped Area					, , , , , , , , , , , , , , , , , , ,
	4. Plant Shade Trees		1			
	5. Implement Hydrozoning: Group Plants by Water Needs		-			
	6. Install High-Efficiency Irrigation Systems					
	a. System Uses Only Low-Flow Drip, Bubblers, or Low-flow Sprinklers					1
	b. System Has Smart (Weather-Based) Controllers			none and compression and the second		2
	7. Apply Two Inches of Compost in the Top 6 to 12 Inches of Soil		***************************************		enconnection with the contract to the second	2
	8. Mulch All Planting Beds to the Greater of 2 Inches or Local Water Ordinance Requirement			V		1
	9. Use 50% Salvaged or Recycled-Content Materials for 50% of Non-Plant Landscape Elem	ents			1.	
	10. Reduce Light Pollution by Shielding Fixtures and/or Directing Light Downward	1				

C. FOUN	DATION	Possible Points
	1. Incorporate Recycled Flyash in Concrete	
	a. Minimum 20% Flyash	1
	b. Minimum 25% Flyash (1 pt)	1
	2. Use Frost-Protected Shallow Foundation in Cold Areas (C.E.C. Climate Zone 16)	3
	3. Use Radon Resistant Construction (In At-Risk Locations Only)	1
Advance of the Control of the Contro		
D. STRU	CTURAL FRAME & BUILDING ENVELOPE	Possible Points
	Apply Optimal Value Engineering	
	a. 2x4 Studs at 24-Inch On Center Framing	1
	b. Door and Window Headers Sized for Load	1
	c. Use Only Jack and Cripple Studs Required for Load	1
White the sales of the same and the same and the sales of	2. Use Engineered Lumber	
	a. Beams and Headers	: : 1
	b. Insulated Engineered Headers	1
	c. Wood I-Joists or Web Trusses for Floors	1
	d. Wood I-Joists for Ceilings	1
	e. Engineered or Finger-Jointed Studs for Vertical Applications	1
	3. Use FSC-Certified Wood	
	a. Dimensional Studs: Minimum 40%	1 2
	b. Dimensional Studs: Minimum 75%	2
	c. Panel Products: Minimum 40%	2
	d. Panel Products: Minimum 40%	$\frac{1}{2}$
		1
	4. Design Energy Heels on Trusses (75% of Attic Insulation Height at Outside Edge of Exterior Wall)	1 :
	5. Design Trusses to Accommodate Ductwork	1
	6. Use Oriented Strand Board (OSB)	
	a. Subfloor	1
	b. Sheathing	1
	7. Use Recycled-Content Steel Studs for 90% of Interior Wall Framing	1
AND THE RESIDENCE OF THE PARTY	8. Use Solid Wall Systems (Includes SIPs, ICFs, & Any Non-Stick Frame Assembly)	
	a. Floors	2 2
	b. Walls	2 2
	c. Roofs	2 2
	9. Thermal Mass Walls: 5/8-inch Drywall on All Interior Walls or Walls Weigh more than 40	· •
veren i resion i se, en i reles umate, um buto que	10. Design and Build Structural Pest Controls	
	a. Install Termite Shields & Separate All Exterior Wood-to-Concrete Connections	
	by Metal or Plastic Fasteners/Dividers	1
	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	
	a. Tightly Seal the Air Barrier between Garage and Living Area	1
	b. Install Separate Garage Exhaust Fan	1
···	12. Install Overhangs and Gutters	
	a. Minimum 16-Inch Overhangs and Gutters	1
	b. Minimum 24-Inch Overhangs and Gutters	1
		<u> </u>
E. EXTE	RIOR FINISH	Possible Points
	Use Recycled-Content (No Virgin Plastic) or FSC-Certified Wood Decking	2
	2. Install a Drainage Plane (Rain Screen Wall System)	2
Ē	3. Use Durable and Non-Combustible Siding Materials	1
<u> </u>	4 Select Durable and Non-Combustible Roofing Materials	1

F. PLUN	MBING	Possib	e Points
	1. Distribute Domestic Hot Water Efficiently		
	a. Insulate Hot Water Pipes from Water Heater to Kitchen	:	1
	 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
	c. Locate the Water Heater within 25 feet of All Hot Water Fixtures and Appliances	ą.	1
	d. Use Engineered Parallel Piping		3
	2. Install Only High Efficiency Toilets (Dual-Flush or <=1.3 gpf)	and the second s	Server - Anna Carlotte - Carlotte
G APP	LIANCES	Possib	e Points
	1. Install ENERGY STAR Dishwasher		
	a. ENERGY STAR	The second secon	The second secon
	b. Dishwasher Uses No More than 6.5 Gallons/Cycle	1.	1
Ti-	2. Install ENERGY STAR Clothes Washing Machine with Water Factor of 6 or Less	J.	3
	3. Install ENERGY STAR Refrigerator	and the second s	oppravonomento de M. 1900 de la 1900 de la Principal de Principal de Principal de Principal de Principal de Pr
\Box	a. ENERGY STAR: 15% above Federal Minimum	1	ALT THE RESEARCH PROPERTY AND AN ARREST CONTRACTOR OF THE ARCHITECTURE.
	b. Super-Efficient Home Appliance Tier 2: 25% above Federal Minimum	1	
	4. Install Built-In Recycling Center		
	4. IIIStali Dull-III Necycling Center		energy, where the most and an analysis and the committee of the committee
H. INSI	ULATION	Possib	le Points
	1. Install Insulation with 75% Recycled Content		
	a. Walls and/or Floors	and the second s	1
	b. Ceilings	nu compressione de la compressio	Manager of the state of the sta
	Install Insulation that is Low-Emitting (Certified Section 01350)	and a final section of the section o	
	a. Walls and/or Floors		1
H	b. Ceilings		1
	3. Pre-Drywall Inspection Shows Quality Installation of Insulation		
	The state of the s	gazgan ^k , gazaran sa ran na yangan saran saran terbahan ana dah sahas da sensa eri sense eri sense terbahan	
LHEAT	TING, VENTILATION & AIR CONDITIONING	Possib	le Points
	Design and Install HVAC System to ACCA Manual J, D, and S Recommendations	4	
	2. Install Sealed Combustion (Direct Vent) Units in Conditioned Space	The second secon	opposite the construction of the first than the construction of th
\Box	a. Furnaces		2
	b Water Heaters		2
	3. No Fireplace or Sealed Gas Fireplace with Efficiency Rating Not Less Than 60%		1
	4. Install ENERGY STAR Ceiling Fans with CFLs in Living Areas and Bedrooms	1	
	5. Install Ventilation System for Nighttime Cooling		
[-7	a. Whole House Fan	1	
	b. Automatically Controlled Integrated System	1 2	
H	c. Integrated System with Variable Speed Control	3	
H	6. Install Air Conditioning with Non-HCFC Refrigerants	1	And the state of t
<u> </u>	7. Design and Install Effective Ductwork		
<u> </u>	a. Install HVAC Unit and Ductwork within Conditioned Space	3	Commence and the service of the serv
	b. Use Duct Mastic on All Duct Joints and Seams		
		1	
	c. Install Ductwork under Attic Insulation (Buried Ducts)	1	
	 d. Pressure Balance the Ductwork System for Master Bedroom e. Protect Ducts during Construction and Clean All Ducts before Occupancy 		1
	8. Install High Efficiency HVAC Filter (MERV 6+)	1	1
📙	9. Install Zoned, Hydronic Radiant Heating with Slab Edge Insulation		

<u></u>		
	10. Install Mechanical Ventilation System	
	a. Any Whole House Ventilation System That Meets ASHRAE 62.2	1 2
	b. Install ENERGY STAR Bathroom Fan	1
	c. All Bathroom Fans Are on Timer or Humidistat	1
	11. Use Low-Sone Range Hood Vented to the Outside	. 1
	12. Install Carbon Monoxide Alarm(s)	: 1
The second secon		A STATE OF THE STA
J. BUILD	ING PERFORMANCE	Possible Points
	1. Design and Build High Performance Homes (2 points for each 1% above T-24, up to 30	
00/	pts)	
	Enter the percent above Title 24 in the cell at left. Any value over 15% will automatically earn	30
	30 points.	
	2. House Obtains ENERGY STAR with Indoor Air Package Certification	5 2
	3. Inspection and Diagnostic Evaluations	de la companya del la companya de la
	a. Third Party Energy and Green Building Review of Home Plans	1 1 1
	b. Blower Door Test Performed	1
	c. House Passes Combustion Safety Backdraft Test	1
***************************************	The second secon	
K. RENEV	WABLE ENERGY	Possible Points
	Pre-Plumb for Solar Hot Water Heating	4
i Fi	2. Install Solar Water Heating System	10
	3. Install Wiring Conduit for Future Photovoltaic Installation & Provide 200 ft ² of South-	
C.3	Facing Roof	2
	4. Install Photovoltaic (PV) Panels	
	a. 1.2 kW System	6
	b. 2.4 kW System	6
	c. 3.6 kW or more	6

L. FINISH		Possible Points
	Provide Permanent Walk-Off Mats and Shoe Storage at Home Entrances	1
	2. Use Low/No-VOC Paint	
	a. Low-VOC Interior Wall/Ceiling Paints (<50 gpl VOCs (Flat) and <150 gpl VOCs (Non-Flat))	1
<u>L</u> '	b. Zero-VOC: Interior Wall/Ceiling Paints (<5 gpl VOCs (Flat))	3
	3. Use Low VOC, Water-Based Wood Finishes (<150 gpl VOCs)	2
	4. Use Low-VOC Construction Adhesives (<70 gpl VOCs) for All Adhesives	2
	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):	
	a. Cabinets	1
	b. Interior Trim	$\tilde{1}$
	c. Shelving	1
	d. Doors	1
	e. Countertops	1
	7. Reduce Formaldehyde in Interior Finish (Section 01350) for At Least 50% of Each Material Below:	
_	a. Cabinets	1
	b. Interior Trim	1 1
	c. Shelving	1
	d. Subfloor	. 1

			~~		
<u> </u>	8. After Installation of Finishes, Test of Indoor Air Shows Formaldehyde Level <27ppb			AMERICAN AND THE PARTY OF THE P	
M. FLOC	ORING		Possible Po	ints	
	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. Note: Flooring Adhesives Must Have <50 gpl VOCs.				
	a. Minimum 15% of Floor Area	and the second s	1		
	b. Minimum 30% of Floor Area		1		
	c. Minimum 50% of Floor Area		1		
	d. Minimum 75% of Floor Area		1		
	2. Thermal Mass Floors: Floor Covering Other than Carpet on 50% or More of Concrete Flo	ors 1			
	3. Flooring Meets Section 01350 or CRI Green Label Plus Requirements (50% Minimum)		2		*
			Possible Po	inte	
N. OTHI			USSIDIC I C		
	1. Incorporate Green Points Checklist in Blueprints - Required	www.wiggo			
	2. Develop Homeowner Manual of Green Features/Benefits 5. Community Design measures α Locar Phornies. See the Community Franking α Design Sec	Luon in Onapier	יטו נווב ואבש	nome ou	uemies
· · · · · · · · · · · · · · · · · · ·	for measures. Maximum of 20 points for suggested measures. Local requirements may also be li 4. For having a hybrid or zero emissions vehicle	ctad hara			
	5. For having no automobile				
	6. Planting more than one street tree when feasible				
	7. Earthquake kit				
				mente (tal	
Sumi	nary				
	Points Achieved from Specific Categories	0 0	0	0	0
	Total Points Achieved		0	Commission with the second of the contract of	



Multifamily GreenPoint Checklist Supplemental Application Form

Project Address:				
Checklist Prepared By:				
Date Prepared:				
	-≤		<u> </u>	s
ENTER PROJECT NAME	Community	Energy	IAQ/Health	Resources Water
A. PLANNING & DESIGN		Possib	le Po	nts
1. Infill Sites	pr	alterné baller e care a a maga		***
a. Project is Located Within an Urban Growth Boundary & Avoids Environmentally Sensitive Sites	1		ndered Market Co. de contrac	
b. Project Includes the Redevelopment of At Least One Existing Building		· minimones dentino con	20.002.004.00 4 0.004.00)
0 c. Housing Density of 15 Units Per Acre or More (1 pt for every 5 u/a) Enter Project Density Number (In Units Per Acre)	10			
d. Locate Within Existing Community that has Sewer Line & Utilities in Place	1		man rivatorio rappatante sa	
e. Project Redevelops a Brownfield Site or is Designated a Redevelopment Area by a City				
f. Site has Pedestrian Access Within ½ Mile to Neighborhood Services (1 Pt for 5 Or More, 2 Pts for 10 Or More):	p			
1) Bank 2) Place of Worship 3) Full Scale Grocery/Supermark	ĸ			
4) Day Care 5) Cleaners 6) Fire Station				
7) Hair Care 8) Hardware 9) Laundry				
10) Library 11) Medical/Dental 12) Senior Care Facility	2			
13) Public Park 14) Pharmacy 15) Post Office	-			
16) Restaurant 17) School 18) After School Programs				
19) Commercial Office 20) Community Center 21) Theater/Entertainment				
22) Convenience Store Where Meat & Produce are Sold.				
g. Proximity to Public Transit	4	***************************************	THE RESIDENCE AND ADDRESS OF	
Development is Located Within:				
1/4 Mile of One Planned or Current Bus Line Stop	1			emercanistic control of the same
1/4 Mile of Two or More Planned or Current Bus Line Stops	1			
1/2 Mile of a Commuter Train/Light Rail Transit System	1			
h. Reduced Parking Capacity:	herromonenenenenenkogo gra		***************************************	***************
Less than 1.5 Parking Spaces Per Unit	1	premium engangris (non-		
Less than 1.0 Parking Spaces Per Unit	1			
2. Mixed-Use Developments	***************************************	******		Mark - Mark - Mark - Constant
a. At least 2% of Development Floorspace Supports Mixed Use (Non-Residential Tenants)	1	art to see on are an against an inch		
b. Half of Above Non-Residential Floorspace is Dedicated to Neighborhood Services	1			
3. Building Placement & Orientation				
a. Protect Soil & Existing Plants & Trees	1			
4. Design for Walking & Bicycling				Additional Control Assessment Control
a. Sidewalks Are Physically Separated from Roadways & Are 5 Feet Wide	1			
b. Traffic Calming Strategies Are Installed by the Developer	1			
c. Provide Dedicated, Covered & Secure Bicycle Storage for 15% of Residents	1			
d Provide Secure Ricycle Storage for 5% of Non Posidential Tanant Employees & Visitors				f

5. Social Gathering Places	and a second
a. Outdoor Gathering Places for Residents (Average of 50 sf Per Unit Or More)	The second secon
b. Outdoor Gathering Places Provide Natural Elements (For compact sites only; this point not availabe if A.5a is c	hecked) 1
6. Design for Safety and Natural Surveillance	
a. All Main Entrances to the Building and Site are Prominent and Visible from the Street	Application of the second seco
b. Residence Entries Have Views to Callers (Windows or Double Peep Holes) & Can Be Seen By Neighbors	1
	and the second s
7. Landscaping Check here if the landscape area is <10% of the total site area. Projects with <10% landscape area can only check	k un to 3 hoxes in this section.
a. No Plant Species will Require Shearing b. No plantings are Listed on the Invasive Plant Inventory by the California Invasive Plant Council	
b. No plantings are Listed on the invasive Plant Inventory by the California Invasive Plant Sources c. Specify California Native or Mediterranean Species that Require Occasional, Little or No Summer Watering	1
	Annual and an experience of the control of the cont
d. Create Drought Resistant Soils: i. Mulch All Planting Beds to a Depth of 2 Inches or Greater as Per Local Ordinance	
ii. Amend with 1 Inch of Compost or as per Soil Analysis to Reach 3.5% Soil Organic Matter	16
e. Design & Install High-Efficiency Irrigation System	The state of the s
i. Specify Smart (Weather-Based) Irrigation Controllers	A STATE OF THE STA
ii. Specify Drip, Bubblers or Low-Flow Sprinklers for All Non Turf Landscape Areas	
f. Group Plants by Water Needs (Hydrozones) in Planting Plans & Identify Hydrozones on Irrigation Plans	e i grand de la companya de la comp
g. Minimize Turf in Landscape Installed by Builder	
i. Do Not Specify Turf on Slopes Exceeding 10% or in Areas Less Than 8 Feet Wide	
ii. Less Than 33% of All Landscaped Area is Specified as Turf AND All Turf has Water Requirement <= To Ta	II
Fescue In Less Trian 33% of All Earlus caped Area is Specified as Turi AND Air full has Water Requirement 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
8. Building Performance Exceeds Title 24	Annual Annual Company of the Company
Enter the Percent Above the 2005 Version of Title 24 for Residential and Non-Residential Portions of the Project.	
2005 TOA (M. C. L. L. L. T. 20 Testa) Deinte for Manager 9	a & h)
A STATE OF THE STA	30
Check here if using 2001 version of Title 24. 1 Point for Every 1% Above 2001 Title 24.	
9. Cool Site	 Opening appropriate production of the production of t
a. At least 30% of the Site Includes Cool Site Techniques	J.
10. Adaptable Buildings	
a. Include Universal Design Principles in Units	A consideration of the contract of the contrac
50% of Units	
80% of Units b. Live/Work Units Include A Dedicated Commercial Entrance	
The state of the s	A CONTRACTOR OF THE CONTRACTOR
11. Affordability a. A Percentage of Units are Dedicated to Households Making 80% or Less of AMI	
10% of All Units	
20%	2.5
30%	1
50% or More	1
b. Development Includes Multiple Bedroom Units (At least 1 Unit with 3BR or More at or Less Than 80% AMI)	7
B. SITEWORK	Possible Points
1. Construction & Demolition Waste Management	
Divert a Portion of all Construction & Demolition Waste:	programmon programmes and an extension of the contraction of the contr
a. Required: Divert 50%	R
Divert 65%	2
c. Divert 80% or more	2

	2. Construction Material Efficiencies	
	a. Lumber is Delivered Pre-Cut from Supplier (80% or More of Total Board Feet)	1
	b. Components of the Project Are Pre-Assembled Off-Site & Delivered to the Project)
	25% of Total Square Footage	2
	50% of Total Square Footage	2
	75% of Total Square Footage or More	2
	3. Construction Indoor Air Quality (IAQ) Management Plan	1 2
	a. An IAQ Management Plan is Written & Followed for the Project	2
roks	TRUCTURE	Possible Points
2Herand	1. Recycled Aggregate	r vasible i villa
	a. Minimum 25% Recycled Aggregate (Crushed Concrete) for Fill, Backfill & Other Uses	
	2. Recycled Flyash in Concrete	
	a. Flyash or Slag is Used to Displace a Portion of Portland Cement in Concrete	
Г	20%	
	30% or More	
~~	3. FSC-Certified Wood for Framing Lumber	1
	a. FSC-Certified Wood for a Percentage of All Dimensional Studs:	
	40%	The second secon
	70%	2
	b. FSC-Certified Panel Products for a Percentage of All Sheathing (OSB & Plywood):	4
	40%	
	70%	į.
	4. Engineered Lumber or Steel Studs, Joists, Headers & Beams	
	a. 90% or More of All Floor & Ceiling Joists	All a health to control of the different management according to the first control of the distribution of the property of the control of the
	b. 90% or More of All Studs	1
	c. 90% or More of All Headers & Beams	£
	5. Optimal Value Engineering Framing	
П	a. Studs at 24" Centers on Top Floor Exterior Walls &/or All Interior Walls	
	b. Door & Window Headers Sized for Load	
\Box	c. Use Only Jack & Cripple Studs Required for Load	1.
	6. Steel Framing	
	a. Mitigate Thermal Bridging by Installing Exterior Insulation (At Least 1-Inch of Rigid Foam)	
	7. Structural Insulated Panels (SIPs) Or Other Solid Wall Systems	2
	a. SIPs Or Other Solid Wall Systems are Used for 80% of All:	
	Floors	
П	Walls	2 2
	Roofs	2 2
	8. Raised Heel Roof Trusses	2 2
	a. 75% of All Roof Trusses Have Raised Heels	*
	9. Insulation	1
	a. All Ceiling, Wall & Floor Insulation is 01350 Certified OR Contains No Added Formaldehyde	
$\overline{\Box}$	b. All Ceiling, Wall & Floor Insulation Has a Recycled Content of 50% or More	.1
***************************************	10. Durable Roofing Options	
	a. Required: No Shingle Roofing OR All Shingle Roofing Has 3-Yr Subcontractor Guarantee & 20-Yr Manufacturer Warranty	R
	•	
	b. All Sloped Roofing Materials Carry a 40-Year Manufacturer Warranty 11 Moisture Shedding & Mold Avaidance	
	11. Moisture Shedding & Mold Avoidance	
\vdash	a. Building(s) Include a Definitive Drainage Plane Under Siding	4
	 b. Bathroom Fans are Supplied in All Bathrooms, Are Exhausted to the Outdoors & Are Equipped with Controls c. A Minimum of 80% of Kitchen Range Hoods Are Vented to the Exterior 	1
L	S. C. Milliand III OF NO A OF MICHEL MAINE FIGURE AFE VEHILLO IN EXTERNAL	1

12. Green Roofs	
a. A Portion of the Low-Slope Roof Area is Covered By A Vegetated or "Green" Roof	grammer or the production of the contract of t
25%	2
50% or More	2
YSTEMS	Possible Points
1. Passive Solar Heating	
a. Orientation: At Least 40% of the Units Face Directly South	2
b. Shading On All South-Facing Windows Allow Sunlight to Penetrate in Winter, Not in Summer	1
c. Thermal Mass: At Least 50% of the Floor Area Directly Behind South-Facing Windows is Massive	2
2. Radiant Hydronic Space Heating	
a. Install Radiant Hydronic Space Heating for IAQ purposes (No Forced Air) in All Residences	C. C
3. Solar Water Heating	Francisco de como deservación con contrato de contrato
a. Pre-Plumb for Solar Hot Water	1.
b. Install Solar Hot Water System for Preheating DHW	Company of the second s
4. Air Conditioning with Advanced Refrigerants	
a. Install Air Conditioning with Non-HCFC Refrigerants	The second section of the second section secti
5. Advanced Ventilation Practices	
Perform the Following Practices in Residences:	programme in the China control and displacement and the control of
a. Infiltration Testing by a C-HERS Rater for Envelope Sealing & Reduced Infiltration	2
b. Operable Windows or Skylights Are Placed To Induce Cross Ventilation (At Least One Room In 80% of Units)	1
c. Ceiling Fans in Every Bedroom & Living Room OR Whole House Fan is Used	
6. Garage Ventilation	perconnection when the company is a consistency of the consistency of
a. Garage Ventilation Fans Are Controlled by Carbon Monoxide Sensors (Passive Ventilation Does Not Count)	
7. Low-Mercury Lamps	profession and constructions are appropriate and the same
a. Low-Mercury Products Are Installed Wherever Linear Fluorescent Lamps Are Used	
b. Low-Mercury Products Are Installed Wherever Compact Fluorescent Lamps Are Used	CONTRACTOR OF THE CONTRACTOR O
8. Light Pollution Reduction	graduates designada de disembles al militar de companya companya de companya d
a. Exterior Luminaires Emit No Light Above Horizontal OR Are Dark Sky Certified	1
b. Control light Trespass Onto Neighboring Areas Through Appropriate Fixture Selection & Placement	Accessed that the second control of the seco
9. Onsite Electricity Generation	galance of the control of the contro
a. Pre-Wire for Photovoltaics & Plan for Space (Clear Areas on Roof & in Mechanical Room)	generating the entire of the control
b. Install Photovoltaics to Offset a Percent of the Project's Total Estimated Electricity Demand	gamentalasamanan kantaran mahada kalenda da d
10%	2 2
20%	2 2
30% or more	2 2
c. Educational Display is Provided in a Viewable Public Area	
10. Elevators	Appendix of the contraction of t
a. Gearless Elevators Are Installed	
11. ENERGY STAR® Appliances	
a. Install ENERGY STAR Refrigerators in All Locations	
ENERGY STAR-Qualified	49.
ACEEE-Listed Refrigerators	1
b. Install ENERGY STAR Dishwashers in All Locations	production of the second secon
All Dishwashers Are ENERGY STAR-qualified	1
Residential-grade Dishwashers Use No More than 6.5 Gallons Per Cycle	
c. Install ENERGY STAR Clothes Washers In All Locations	1.
d. Install Ventless Natural Gas Clothes Dryers in Residences	1

12. Central Laundry

a. Central Laundry Facilities Are Provided for All Occupants

	13. Water-Efficient Fixtures	
	a. All Showerheads Use 2.0 Gallons Per Minute (gpm) or Less	1 1
	b. High-Efficiency Toilets Use 1.28 gpf or Less or Are Dual Flush	
	In All Residences	3
	In All Non-Residential Areas	3
	c. Install High Efficiency Urinals (0.5 gpf or less) or No-Water Urinals Wherever Urinals Are Specified:	According across the commencer commencer and the property designs across across the contract of the second
	Average flush rate is 0.5 gallons per flush or less	PERFECTION OF A CONTRACT CONTR
	Average flush rate is 0.1 gallons per flush or less	î
	d. Flow Limiters Or Flow Control Valves Are Installed on All Faucets	
	Residences: Kitchen - 2.0 gpm or less	1
	Non-Residential Areas: Kitchen - 2.0 gpm or less	0 0
	Residences: Bathroom Faucets- 1.5 gpm or less	
	Non-Residential Areas: Bathroom Faucets - 1.5 gpm or less	0 0
	e. Non-Residential Areas: Install Pre-Rinse Spray Valves in Commercial Kitchens - 1.6 gpm or less	
	14. Source Water Efficiency	The second of th
	a. Use Recycled Water for Landscape Irrigation or to Flush Toilets/Urinals	A COMMENT OF STREET OF STREET, STREET OF STREET, STREE
	b. Use Captured Rainwater for Landscape Irrigation or to Flush 5% of Toilets &/or Urinals	4
	c. Water is Submetered for Each Residential Unit & Non-Residential Tenant	4
		and a state of the
0/10	NISHES AND FURNISHINGS	Possible Points
	1. Construction Indoor Air Quality Management	
	a. Perform a 2-Week Whole Building Flush-Out Prior to Occupancy	1
	2. Entryways	
	a. Provide Permanent Walk-Off Mats and Shoe Storage at All Home Entrances	1
	b. Permanent Walk-Off Systems Are Provided at All Main Building Entrances & In Common Areas	1
_	3. Recycling & Waste Collection	The second secon
Ш	a. Residences: Provide Built-In Recycling Center In Each Unit	2
	4. Use Low/No-VOC Paints & Coatings	All manufactures and the second secon
	a. Low-VOC Interior Paints (<50 gpl VOCs (Flat) and <150 gpl VOCs (Non-Flat))	The residence of the second contraction of t
	In All Residences	1.
	In All Non-Residential Areas:	0
	b. Zero-VOC: InteriorPaints (<5 gpl VOCs (Flat))	
	In All Residences	1
	In All Non-Residential Areas:	0
	c. Wood Coatings Meet the Green Seal Standards for Low-VOCs	processors and the contract of
	In All Residences	2
	In All Non-Residential Areas:	0
	d. Wood Stains Meet the Green Seal Standards for Low-VOCs	
	In All Residences	2
Ш	In All Non-Residential Areas:	0
	5. Use Recycled Content Exterior Paint	
	a. Use Recycled Content Paint on 50% of All Exteriors	1
	6. Low-VOC Construction Adhesives	
	a. Use Low-VOC Construction Adhesives (<70 gpl VOCs) for All Adhesives	1.

	7. Environmentally Preferable Materials for Interior Finish			
	Use Environmentally Preferable Materials for Interior Finish: A) FSC-Certified Wood, B) Reclaimed Lumber, C) Rapidly Renewable D) Recycled-Content or E) Finger-Jointed			
	a. Residences: At Least 50% of Each Material:			
[]	i. Cabinets	. 1		
	ii. Interior Trìm	1		
Li	iii. Shelving	1.		
1.1	iv. Doors	: .h.		
	v. Countertops)_		
	b. Non-Residential Areas: At Least 50% of Each Material:	generalismos (s.) karja ka		
	i. Cabinets	0		
	ii. Interior Trim	()		
	iii. Shelving	Q.		
	iv. Doors	0		
	v. Countertops	Acceptance of commencers and the production of the company of the		
	8. Reduce Formaldehyde in Interior Finish Materials			
	Reduce Formaldehyde in Interior Finish Materials (Section 01350) for At Least 50% of Each Material Below:			
	a. Residences:	9		
	i. Cabinets	4		
[]	ii. Interior Trim	1		
	iii. Shelving			
	iv. Subfloor	A.		
	b. Non-Residential Areas:	0		
	i. Cabinets	0		
	ii. Interior Trim	0		
<u> </u>	iii. Shelving			
. !!	iv. Subfloor 9. Environmentally Preferable Flooring	Augustus paramenta antimenta promise de la compania del la compania de la compania del la compania de la compania de la compania del la compania de la compania de la compania del la compania		
	·	2) Regular Content Coronic		
	Use Environmentally Preferable Flooring: A) FSC-Certified or Reclaimed Wood, B) Rapidly Renewable Flooring Materials, C Tiles, D) Exposed Concrete as Finished Floor or E) Recycled-Content Carpet. Note: Flooring Adhesives Must Have <50 gpl	VOCs.		
[a. Residences:	# * * * * * * * * * * * * * * * * * * *		
	i. Minimum 15% of Floor Area ii. Minimum 30% of Floor Area	4		
L	iii. Minimum 50% of Floor Area	4		
	iv. Minimum 75% of Floor Area			
اا	b. Non-Residential Areas:	Managarina and Archiver and Arc		
[1]	i, Minimum 15% of Floor Area			
	ii Minimum 30% of Floor Area	l n		
[]	iii. Minimum 50% of Floor Area			
	iv. Minimum 75% of Floor Area			
\	10. Low-Emitting Flooring	And the second and the second		
	a. Residences: Flooring Meets Section 01350 or CRI Green Label Plus Requirements (50% Minimum)	The state of the s		
	b. Non-Residential Areas: Flooring Meets Section 01350 or CRI Green Label Plus Requirements (50% Minimum)	0		
	11. Durable Cabinets	The second of the second secon		
	Install Durable Cabinets in All:	generative resource, we represent the control of th		
	a. Residences	1		
	b. Non-Residential Areas	0		

. —		
	12. Furniture & Outdoor Play Structures	-
	a. Play Structures & Surfaces Have an Overall Average Recycled Content Greater Than 20%	1
	b. Environmentally Preferable Exterior Site Furnishings	1
	c. At Least 25% of All newly Supplied Interior Furniture has Environmentally Preferable Attributes	1
Transition designations	13. Vandalism Deterrence	<u> </u>
	a. Project Includes Vandalism Resistant Finishes and Strategies	1
To Market August 1999 and August 1990 and August 1990 and August 1990 and August 1990 and Augu		
F. 01	HER	Possible Points
	1. Incorporate GreenPoint Checklist in Blueprints	
	a. Required: Incorporate GreenPoint Checklist in Blueprints	R
***************************************	2. Operations & Maintenance Manuals	The second secon
	a. Provide O&M Manual to Building Maintenance Staff	
	b. Provide O&M Manual to Occupants	1 1
	3. Transit Options	
	a. Residents Are Offered Free or Discounted Transit Passes	2
	4. Educational Signage	
	a. Educational Signage Highlighting & Explaining the Project's Green Features is Included	1
	5. Vandalism Management Plan	
	a. Project Includes a Vandalism Management Plan for Dealing with Disturbances Post-Occupancy	1
	6. Innovation: List innovative measures that meet the green building objectives of the Multifamily Guidelines. Enter up to a 4 Points will be evaluated by local jurisdiction or GreenPoint rater.	Points in each category.
0	Innovation in Community: Enter up to 4 Points at left. Enter description here	
0	Innovation in Energy: Enter up to 4 Points at left. Enter description here	
0	Innovation in IAQ/Health: Enter up to 4 Points at left. Enter description here	
0	Innovation in Resources: Enter up to 4 Points at left. Enter description here	d processing to the control of the c
0	Innovation in Water: Enter up to 4 Points at left. Enter description here	
		· · · · · · · · · · · · · · · · · · ·
Sun	nmary	
		0 0 0 0 0
	Current Point Total	WAYAR O SA STAN
	•	



Supplemental Application Form LEED-CI Version 2.0 Registered Project Checklist

Project Name:

Project Address:

Yes	?	No	The authorities are also and the design of t		
		<u></u>	Sustainal		
			Credit 1	Site Selection - Select a LEED Certified Building - OR -	3
			Options 4A	Locate the tenant space in a building with following characteristics (up to 3 points): Brownfield Redevelopment	1/2
			Option 18	Stormwater Management: Rate and Quantity	1/2
			Option 10	Stormwater Management: Treatment	1/2
				Heat Island Reduction, Non-Roof	1/2 1/2
				Heat-Island Reduction, Roof Light Pollution Reduction	1/2
			Option 1G	Water Efficient Irrigation: Reduce by 50%	1/2
			Option 1H	Water Efficient Irrigation: No Potable Use or No Irrigation	1/2
			Option 1	Innovative Wastewater Technologies	1/2 1/2
				Water Use Reduction: 20% Reduction Onsite Renewable Energy	1/2 to 1
			Option 1L	Other Quantifiable Environmental Performance	1/2 to 3
			Credit 2	Development Density and Community Connectivity	1
			Credit 3.1	Alternative Transportation, Public Transportation Access Alternative Transportation, Bicycle Storage & Changing Rooms	1
			Ursall J.Z. Oredit 9.3	Alternative Transportation, Bicycle Storage & Changing Rooms Alternative Transportation, Parking Availability	1
	_			, and the state of	
Yes	?	No		(Clone)	
L1		1	Credit 1.1	Water Use Reduction - 20% Reduction	1
			Credit 1.2		1
Yes	?	No			anderst standard
			Ettinia:	(Atmesohere)	
- 47			Prereq 1	Fundamental Commissioning	Required
			Prereq 2	Minimum Energy Performance	Required Required
			Prereq 3 Credit 1 1	CFC Reduction in HVAC&R Equipment Optimize Energy Performance - Lighting Power	3
			Credit 1.2	Optimize Energy Performance - Lighting Controls	1
			Credit 1.3	Optimize Energy Performance - HVAC Optimize Energy Performance - Equipment and Appliances	2 2
			Oredit 2	Enhanced Commissioning	1
			Credit 3	Energy Use, Measurement & Payment Accountability	2
			Credit 4	Green Power	1
Yes	?	No	The second of the second second second		
	L			& Resignices	
			Prereq *	Storage and Collection of Recyclables	Required 1
			Credit 1.1 Credit 1.2	Tenant Space, Long Term Commitment Building Reuse, Maintain 40% of Interior Non-Structural Components	1
			Credit 1.3	Building Reuse, Maintain 60% of Interior Non-Structural Components	1
			Credit 2.1		1
			Credit 2.2	Construction Waste Management, Divert 75% From Landfill Resource Reuse, 5%	1
			Credit 3.2	Resource Reuse, 10%	1
			Credit 3.3	Resource Reuse, 30% Furniture and Furnishings	1
			Uredit 4.1	Recycled Content, 10% (post-consumer + 1/2 pre-consumer) Recycled Content, 20% (post-consumer + 1/2 pre-consumer)	1
			Gredit 5.1	Regional Materials, 20% Manufactured Regionally	1
			Credit 5.2	Regional Materials, 10% Extracted and Manufactured Regionally	1
			Credit 6	Rapidly Renewable Materials Certified Wood	1
			Credit 7	Draft for Review: July 2, 2007	·

		Indoor E	nvironmental Quality Possible Po	nie.
32.7		Prereq 1	Minimum IAQ Performance	Required
- 3/3		Prereq 2	Environmental Tobacco Smoke (ETS) Control	Required
		Credit 1	Outside Air Delivery Monitoring	['] 1
		Credit 2	Increased Ventilation	1
		Credit 3.1	Construction IAQ Management Plan, During Construction	1
			Construction IAQ Management Plan, Before Occupancy	1
		Credit 4 1		1
			Low-Emitting Materials, Paints and Coatings	1
		Credit 4.4	Low-Emitting Materials, Carpet Systems	1
		Gredit 4.5		1
		Credit 5		1
			Controllability of Systems, Lighting	1
		Cradit 6.2	Controllability of Systems, Temperature and Ventilation	1
			Thermal Comfort - Compliance	1
			Thermal Comfort - Monitoring	1
			Daylight & Views - Daylight 75% of Spaces	1
		Credit 8.2	Daylight & Views - Daylight 90% of Spaces	1
		Credit 8.3	Daylight & Views - Views for 90% of Seated Spaces	1
Yes	2	No		
		in revent	on & Design Process Possible Pail	F A Comment
		Credit 1.1	Innovation in Design	4
			Innovation in Design	1
			Innovation in Design	1
			Innovation in Design	1
		Credit 2		1
Yes	?	No		
			ntercentification estimates	
ш		Barrakaz (resila).	是是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一	Aria

Lastified 1 of 76 boards. Silver 27 to 34 points. Gold 32 to 44 points. Platinum 48 to 5 points.



Supplemental Application Form LEED-NC Version 2.2 Registered Project Checklist

Project Name: Prepared by:

Yes	? No		
Li			성하시아 영향에 하느 사람이 함께 보고 있다. -
ge va Suc	Prereq 1	Construction Activity Pollution Prevention	Required
	Credit 1	Site Selection	1
	Credit 2	Development Density & Community Connectivity	1
	Credit 3	Brownfield Redevelopment	1
	Credit 4.1	Alternative Transportation, Public Transportation Access	1
		Alternative Transportation, Bicycle Storage & Changing Rooms	1
	Credit 4.3	Alternative Transportation, Low-Emitting and Fuel-Efficient Vehicles	1
	Credit 4.4	Alternative Transportation, Parking Capacity	1
	Credit 5.1	Site Development, Protect of Restore Habitat	1
	Credit 5.2	Site Development, Maximize Open Space	1
		Stormwater Design, Quantity Control	1
	Credit 6.2	Stormwater Design, Quality Control	1
	Credit 7.1	Heat Island Effect, Non-Roof	1
	Credit 7.2	Heat Island Effect, Roof	1
	Credit 8	Light Pollution Reduction	1
Yes	? No		
	The September of	Briginay, Same and the second	Market and the second
	Credit 1.1	Water Efficient Landscaping, Reduce by 50%	1
	Credit 1.2	Water Efficient Landscaping, No Potable Use or No Irrigation	1
	Credit 2	Innovative Wastewater Technologies	1
	Credit 3.1	Water Use Reduction, 20% Reduction	1
	Credit 3.2	Water Use Reduction, 30% Reduction	1
Yes	? No		
	Haisi	y & Aunosphare	
	Prereq 1	Fundamental Commissioning of the Building Energy Systems	Required
	Prereq 2	Minimum Energy Performance	Required
100	Prereq 3	Fundamental Refrigerant Management	Required
	Credit 1	Optimize Energy Performance	1 to 10
	Credit 2	On-Site Renewable Energy	1 to 3
	Credit 3	Enhanced Commissioning	1
	Credit 4	Enhanced Refrigerant Management	1
	Credit 5	Measurement & Verification	1
	Credit 6	Green Power	1

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69 Points

? No Yes Materials & Resources Storage & Collection of Recyclables Required Credit 1.1 Building Reuse, Maintain 75% of Existing Walls, Floors & Roof Credit 1.2 Building Reuse, Maintain 100% of Existing Walls, Floors & Roof 1 Credit 1.3 Building Reuse, Maintain 50% of Interior Non-Structural Elements Credit 2.1 Construction Waste Management, Divert 50% from Disposal Credit 2.2 Construction Waste Management, Divert 75% from Disposal Credit 3.1 Materials Reuse, 5% Credit 3.2 Materials Reuse. 10% Credit 4.1 Recycled Content, 10% (post-consumer + ½ pre-consumer) Credit 4.2 Recycled Content, 20% (post-consumer + ½ pre-consumer) Credit 5.1 Regional Materials, 10% Extracted, Processed & Manufactured Regiona Credit 5.2 Regional Materials, 20% Extracted, Processed & Manufactured Regiona Rapidly Renewable Materials Credit 6 Credit 7 **Certified Wood** ? Yes Indian Environmental Quality Minimum IAQ Performance Prerea 1 Required Prereq 2 **Environmental Tobacco Smoke (ETS) Control** Required Credit 1 **Outdoor Air Delivery Monitoring** 1 Credit 2 **Increased Ventilation** 1 Credit 3.1 Construction IAQ Management Plan, During Construction 1 Credit 3.2 Construction IAQ Management Plan, Before Occupancy Credit 4.1 Low-Emitting Materials, Adhesives & Sealants 1 Credit 4.2 Low-Emitting Materials, Paints & Coatings Credit 4.3. Low-Emitting Materials, Carpet Systems Credit 4.4 Low-Emitting Materials, Composite Wood & Agrifiber Products Credit 5 **Indoor Chemical & Pollutant Source Control** Credit 6.1 Controllability of Systems, Lighting Credit 6.2 Controllability of Systems, Thermal Comfort Credit 7.1 Thermal Comfort, Design Credit 7.2 Thermal Comfort, Verification Credit 8.1 Daylight & Views, Daylight 75% of Spaces Credit 8.2 Daylight & Views, Views for 90% of Spaces Yes 2 Innovation & Design Process Credit 1.1 Innovation in Design: Provide Specific Title Credit 1.2 Innovation in Design: Provide Specific Title Credit 1.3 Innovation in Design: Provide Specific Title Credit 1.4 Innovation in Design: Provide Specific Title Credit 2 LEED® Accredited Professional

Certified 26-32 points Silver 33-38 points Gold 39-51 points Platinum 52-69 points

Project Totals (pre-certification estimates)

Yes ?

BAY-FRIENDLY LANDSCAPING CHECKLIST

		Landscape Locally
ū	1.	Evaluate climate, exposure and topography
	2.	Assess the soil and test drainage
	3.	Survey and protect flora & fauna
	4.	Consider the potential for fire
		Use local, natural plant communities as models
		Landscape for Less to the Landfill
	1.	Select appropriate plants:
		A. Choose plants to match the microclimate & soil conditions
		B. Choose plants that can grow to their natural size in the space allotted them
		C. Replace sheared hedges with plants that can grow to their natural shape & size
		D. Do not plant invasive species
	2.	Keep plant debris on site:
	ū	
	ü	B. Produce mulch from plant debris
		C. Compost plant debris
	3.	Prune selectively and properly
	4.	Water and fertilize judiciously
	5.	Use goats for controlling weeds and creating firebreaks
	6.	Use salvaged items & recycled content materials
	7.	Reduce and recycle construction waste
	8.	Separate plant debris for clean green discounts
		Nurture the Soil
	1.	Remove and store topsoil during construction
	2.	Protect soil from compaction
	3.	Defend against erosion
	4.	Amend the soil with compost before planting
	5.	Grasscycle
	6.	Mulch regularly
	7.	Aerate compacted soils
	8.	Feed soils naturally
	9.	Avoid synthetic, quick release fertilizers
	1(). Minimize the use of chemical pesticides

See chapter 4, Summary of Bay-Friendly Landscaping Benefits to view list of practices categorized by Design, Construction and Maintenance.

		Conserve Water	
_ _	1	Create drought resistant soils with compost & mulch	and the
	2		
J	3		
	4	Implement hydrozoning - group plants by water needs	F1 k of colored colore
	5		er til er mangage i enniget i ege i gammang e gjørnstande i flygter ekk sidden i
	6		MARTINE NE MONTH OF THE PARTY O
	7		***************************************
	8		
	9	Maintain the irrigation system so every drop counts	
ū	1	D. Request an irrigation audit	
		Conserve Energy	300
	1	Plant and protect trees to moderate building temperatures	- 12-15-15-15-15-15-15-15-15-15-15-15-15-15-
	2	Reduce the heat island effect: shade paved areas	
	3	Shade air conditioners	
	4	Design lighting carefully	
	5.	Choose and maintain equipment for fuel conservation	
	6.	Specify local products & suppliers	
		Protect Water & Air Quality	
	1.	Use Integrated Pest Management:	
		A. Prevent pest problems	AND
	Ü	B. Train your staff to identify and monitor pest & beneficial populations	
		C. Educate your clients	
		D. Control pest problems with physical & mechanical methods	MARCO 200 127 (1000) (10 100) (10 100)
		E. Control pest problems with biological controls	***************************************
		F. Control pest problems with the least toxic pesticide as a last resort	
		Eliminate high input decorative lawns	
		Keep soil covered	
		Choose and maintain your materials, equipment & vehicles carefully	
U		Keep organic matter where it belongs	
		Minimize impervious surfaces	changed control of the basis of
		Plant trees	
		Maintain and manage the irrigation system carefully	
u	J.	Design a system to capture and treat water	AAS
		Create & Protect Wildlife Habitat	
	1.	Diversify	10 pm
	2.	Choose California natives first	
	3.	Provide water & shelter	
	4.	Eliminate the use of pesticides	
	5	Conserve or restore natural gross & wildlife corridors	



GREEN BUILDING STANDARDS OF COMPLIANCE

&

CHECKLISTS

DRAFT REVISION OCTOBER 21, 2009

City of Albany Community Development Department 510-528-5760 / www.albanyca.org

City of Albany Green Building Standards of Compliance Draft Standards: October 21, 2009

Project Description		Building Improvements					
		Checklist Required	Minimum Threshold	Third-party Verification			
ects	New construction <u>less</u> than 5,000 sq ft	LEED-NC Checklist	Maximum points practicable	Plan check and spot check field verification			
ed Proj	New construction more than 5,000 sq ft	(Version 3)	Gold (39 points)	US Green Bldg Counci			
City Sponsored Projects	Renovation <u>less</u> than 5,000 sq ft	LEED-CI Checklist	Maximum points practicable	Plan check and spot check field verification			
City	Renovation more than 5,000 sq ft	(Version 3)	Gold (32 points)	US Green Bldg Council			
struction rojects	New construction less than 10,000 sq ft	Small Commercial Green Building Checklist (Feb. 2009)	Maximum points practicable	Plan check and spot check field verification			
nmercial Constructio Renovation Projects	New construction more than 10,000 sq	LEED-NC or LEED- CS Checklist (Version 3)	Gold (39 points)	US Green Bldg Council			
Commercial Construction & Renovation Projects	Renovation <u>less</u> than 10,000 sq ft Renovation <u>more</u> than 10,000 sq ft	Small Commercial Green Building LEED-CI Checklist (Version 3)	Maximum points practicable	Plan check and spot check field verification			
Residential	New construction	New Home Construction Green Building Guidelines (2009 edition)					
Single Family Residential	Renovation subject to Design Review	Green Points Rating System for Remodeling projects (2004 version + City Point Incentives)	50 Points	Plan check and spot check field verification.			
Multi-family Residential	New construction or renovation of less than 5 units	Multifamily Greenpoint Checklist	Maximum points practicable	City Staff and/or certified 3rd party inspection			
Multi-family Residential	New construction or renovation of more than 5 units	(2005 Edition version v.2)	Minimum Points Standard				
Education Facilities	New Construction or Renovation more than 5,000 sq ft	Collaborative for High Performance Schools	Maximum points practicable	City Staff and/or certified 3rd party inspection			
Mixed Use	Consult with Planning Division staff						

City of Albany Green Building Standards of Compliance

Draft Standards: October 21, 2009

Project Description		Landscaping Improvements						
		Checklist Required	Minimum Threshold	Third-party Verification				
City Sponsored Projects	New landscape <u>less</u> than 2,500 sq ft	Bay-Friendly Scorecard for Commercial & Civic Landscapes (January 2008 3rd Ed.)	60 points					
City Spo Proj	New landscape more than 2,500 sq ft	Calif Code Regs Title 23 Water Efficient Landscape Ordinance (as amended by City of Albany)	Compliance					
Commercial Construction & Renovation Projects	New landscape <u>less</u> than 2,500 sq ft	Bay-Friendly Scorecard for Commercial & Civic Landscapes (January 2008 3rd Ed.)	60 points					
Commercial Construction Renovation Projects	New landscape more than 2,500 sq ft	Calif Code Regs Title 23 Water Efficient Landscape Ordinance (as amended by City of Albany)	Compliance					
Developer-Builder Residential Construction & Renovation Projects	New landscape less than 2,500 sq ft	Not Required	Not Required	verification				
Develope Resid Constru Renov Proj	New landscape more than 2,500 sq ft	Calif Code Regs Title 23 Water Efficient Landscape Ordinance (as amended by City of Albany)	Compliance	Plan check and spot check field verification				
Owner-Builder Residential Construction & Renovation Projects	New landscape <u>less</u> than 5,000 sq ft	Not Required	Not Required	and spot (
Owner-Builde Residential Construction Renovation Projects	New landscape <u>more</u> than 5,000 sq ft	Calif Code Regs Title 23 Water Efficient Landscape Ordinance (as amended by City of Albany)	Compliance	Plan check				
ation ities	New landscape <u>less</u> than 2,500 sq ft	Bay-Friendly Scorecard for Commercial & Civic Landscapes (January 2008 3rd Ed.)	60 points					
Equition 2,500 sq ft Wew landscape mother than 2,500 sq ft		Calif Code Regs Title 23 Water Efficient Landscape Ordinance (as amended by City of Albany)	Compliance					
New landscape <u>less</u>		Bay-Friendly Scorecard for Commercial & Civic Landscapes (January 2008 3rd Ed.)	60 points					
Mixed Use	New landscape more than 2,500 sq ft	Calif Code Regs Title 23 Water Efficient Landscape Ordinance (as amended by City of Albany)	Compliance					

Approved by City Council: _____

Checklists

Green Building Program Rating System for Remodeling Projects



Green Building Program Rating System for Remodeling Projects Supplemental Application Form

Checklist Prepared By: Date Prepared: A. Site 1. Recycle Job Site Construction & Demolition Waste 65% = 1 paint, 75% = 2 points, 80% = 4 points 2. Salvage Reusabile Building Materials 3. Remodel for Mixed Use, Adaptive Reuse, and Historic Preservation 4. Resource pits 9-yees 4. Protect Native Soil 5. Minimize Disruption of Existing Plants & Trees 6. Inclement Construction Site Stormwater Practices 7. Protect Water Quality with Landscapes and Gardens 8. Design Resource Efficient Landscapes and Gardens 9. Reuse Material/SUse Recycled Content Materials 10. Install High-Efficiency Impalion Systems 11. Provide for On-Site Water Carchment / Refention 12. Resource pits 9-yes 11. Install High-Efficiency Impalion Systems 12. Resource pits 9-yes 13. Installa Foundation 14. Resource pits 9-yes 14. Resource pits 9-yes 15. Pointed Water Quality with Landscapes 16. Install High-Efficiency Impalion Systems 17. Provide for On-Site Water Carchment / Refention 18. Resource pits 19-yes 19. Resource pits 10. Install High-Efficiency Impalion Systems 11. Provide for On-Site Water Carchment / Refention 19. Resource pits 10. Install High-Efficiency Impalion Systems 11. Provide for On-Site Water Carchment / Refention 11. Resource pits 9-yes 11. Provide for On-Site Water Carchment / Refention 12. Resource pits 9-yes 13. Installa Foundation 14. Resource pits 9-yes 14. Resource pits 9-yes 15. Resource pits 9-yes 16. Resource pits 9-yes 17. Resource pits 9-yes 18. Resource pits 9-yes 19. Resource pits 9-yes 19. Resource pits 9-yes 19. Resource pits 9-yes 19. Resource pits 9-yes 10. Resource pits 10. R	Project Address:		
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c. Roof 3 Energy pts y=yes			
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	10. Apply Advanced Framing Techniques	4 Resource pts y=yes	

11. Use Reclaimed Lumber for Non Structural Applications		Health
12. Use OSB	3 Resource pts y=yes	
a. Subfloors	1 Paggurgo et umuga	
b. Sheathing	1 Resource pt y=yes 1 Resource pt y=yes	
b. Cheathing	1 Resource pt y=yes	
D. Exterior Finish		
1. Use Sustainable Decking Materials		
a. Recycled content	3 Resource pts y=yes	
b. FSC Certified Wood	3 Resource pts y=yes	
2. Use Treated Wood That Does Not Contain Chromium/Arsenic	1 IAQ/Health pt y=yes	
Install House Wrap under Siding	1 IAQ/Health pt y=yes	
4. Use Fiber-Cement Siding Materials	1 Resource pt y=yes	
	, , , , ,	
E. Plumbing		
1. Install Water Heater Jacket	1 Energy pt y=yes	
2. Insulate Hot and Cold Water Pipes	2 Energy pts y=yes	
3. Retrofit all Faucets and Showerheads with Flow Reducers	,,,,	
a. Faucets (1 point each, up to 2 points)	Up to 2 Resource pts.	
b. Showerheads (1 point each, up to 2 points)	Up to 2 Resource pts.	
4. Replace Toilest with Ultra-Low Flush Toilets (1		
point each, up to 3 points)	Up to 3 Resource pts.	
5. Install Chlorine Filter on Showerhead	1 IAQ/Health pt y=yes	
6. Convert Gas to Tankless Water Heater	4 Energy pts y=yes	
7. Install Water Filtration Units at Faucets		
(2 points each, up to 4 points)	Up to 4 IAQ/Health pts.	
8. Install On-Demand Hot Water Circulation Pump	4 Resource pts y=yes	
F. Electrical		
Install Compact Fluorescent Light Bulbs (CFLs)		
bulbs=2 points, 10 bulbs =3 points, 12 bulbs = 4 points)	Up to 4 Energy pts.	
2. Install IC-AT Recessed Fixtures with CFLs (1 point each, up to 5 points)	Up to 5 Energy pts.	
3. Install Lighting Controls (1 point per fixture, up to 4 points)	Up to 4 Energy pts.	
4. Install High Efficiency Ceiling Fans with CFLs (1		
point each, up to 4 points)	Up to 4 Energy pts.	
2.4."		
G. Appliances		
Install Energy Star Dishwasher	1 Energy pt y=yes	
Install Washing Machine with Water and Energy Conservation Features	45	
3.Install Energy Star Refrigerator	1 Energy pt y=yes 1 Energy pt y=yes	
Install Built-In Recycling Center	1 Energy pt y=yes 3 Resource pts y=yes	
	3 Nesource pro y-yes	
H. Insulation		
Upgrade Insulation to Exceed Title 24 Requirements	<u> </u>	
a. Walls	2 Energy pts y=yes	
b. Ceilings	2 Energy pts y=yes	
2. Install Floor Insulation over Crawl Space	4 Energy pts y=yes	
3. Install Recycled-Content, Fiberglass Insulation with No Added Formaldehyde	3 IAQ/Health pts y=yes	
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				INPUT	Resources	Energy	IAQ/Health
4. Use Advanced Infiltration Reduction Practices		2 Energy pts	y=yes				
5. Use Cellulose Insulation			1				
a. Walls		4 Resource pts	y=yes				
b. Ceilings		4 Resource pts	y=yes				
6. Alternative Insulation Products (Cotton, spray-foam)							
a. Walls		4 Resource pts	y=yes				
b. Ceilings	_	4 Resource pts	y=yes				
I. Windows							
1. Install Energy-Efficient Windows							
a. Double-Paned		1 Energy pt	y=yes				
b. Low-Emissivity (Low-E)		2 Energy pts	y=yes				
c. Low. Conductivity Frames		2 Energy pts	y=yes				
2. Install Low Heat Transmission Glazing		1 Energy pt	y=yes				
J. Heating Ventilation and Air Conditioning							
Use Duct Mastic on All Duct Joints		2 Engraventa	V-V00				
Use Duct Mastic on All Duct Joints Install Ductwork within Conditioned Space		2 Energy pts 3 Energy pts	y=yes				
Went Range Hood to the Outside	41	1 IAQ/Health pt	y=yes				
Vent Range Hood to the Outside 4. Clean all Ducts Before Occupancy		2 IAQ/Health pts	y=yes				
Install Solar Attic Fan		•	y=yes				
Install Solar Attic Fall Install Attic Ventilation Systems		2 Energy pts	y=yes				
7. Install Whole House Fan		1 Energy pt 4 Energy pts	y=yes				
Install Whole House Fair Install Sealed Combustion Units		4 Ellergy pis	y=yes				
a. Furnaces		3 IAQ/Health pts	V=V00				
b. Water Heaters		3 IAQ/Health pts					
	Through	3 IAQ/FIEditi pts	y-yes				
Replace Wall-Mounted Electric and Gas Heaters with the Wall Heat Rumps	Through-	3 Energy pts	v=v00				
the-Wall Heat Pumps 10. Install 13 SEER/11 EER or higher AC with a TXV		3 Energy pts	y=yes				
11. Install AC with Non-HCFC Refrigerants		2 Resource pts	y=yes				
12. Install 90% Annual Fuel Utilization Efficiency (AFUE) Furna	മറമ	2 Energy pts	y=yes				
13. Retrofit Wood Burning Fireplaces	100	2 Lifergy pts	y=yes				
a. Install EPA certified wood stoves/inserts		1 IAQ/Health pt	v=v0e				
b. Install/Replace Dampers		1 Energy pt	y=yes y=yes				
c. Install Airtight Doors		1 Energy pt					
14. Install Zoned, Hydronic Radiant Heating		3 Energy pts	y=yes y=yes				
15. Install High Efficiency Filter		4 IAQ/Health pts	y=yes				
16. Install Heat Recovery Ventilation Unit (HRV)		5 IAQ/Health pts	y=yes				
17. Install Separate Garage Exhaust Fan		3 IAQ/Health pts					
The motal populate datage 2 masses and	I	o in an income pro	, , , ,				
K Panawahla Energy and Paofing							
K. Renewable Energy and Roofing				-			1
Pre-Plumb for Solar Water Heating		4 Energy pts	y=yes				
2. Install Solar Water Heating System		10 Energy pts	y=yes				
3. Pre-Wire for Future Photovoltaic (PV) Installation	4.01	4 Energy pts	y=yes				
4. Install Photovoltaic (PV) System	(1.2 kw = 6)	11. 1. 40.5					
points, 2.4 kw = 12 points, 3.6 kw = 18 points)		Up to 18 Ene					
Select Safe and Durable Roofing Materials Install Radiant Barrier		1 Resource pt	y=yes				
t. IIIətdii Nautatit Dattici		3 Energy pts	y=yes				

	W		INPUT	Resources	Energy	IAQ/Health
L. Natural Heating and Cooling						
1. Incorporate Passive Solar Heating	5 Energy pts	y=yes				
Install Overhangs or Awnings over South Facing Windows	3 Energy pts	y=yes				
3. Plant Deciduous Trees on the West and South Sides	3 Energy pts	y=yes				
M. Indoor Air Quality and Finishes						
1. Use Low/No-VOC Paint	1 IAQ/Health pts	v=ves				
2. Use Low VOC, Water-Based Wood Finishes	2 IAQ/Health pts					
3. Use Low/No VOC Adhesives	3 IAQ/Health pts					
4. Use Salvaged Materials for Interior Finishes	3 Resource pts	y=yes				
5. Use Engineered Sheet Goods with no added Urea Formaldehyde	6 IAQ/Health pts		$\overline{}$			
6. Use Exterior Grade Plywood for Interior Uses	1 IAQ/Health pts	y=yes				
7. Seal all Exposed Particleboard or MDF	4 IAQ/Health pts					
8. Use FSC Certified Materials for Interior Finish	4 Resource pts	y=yes				
9. Use Finger-Jointed or Recycled-Content Trim	1 Resource pts	y=yes				
10. Install Whole House Vacuum System	3 IAQ/Health pts	y=yes				
N. Flooring						
1. Select FSC Certified Wood Flooring	8 Resource pts	y=yes				
2. Use Rapidly Renewable Flooring Materials	4 Resource pts	y=yes				
3. Use Recycled Content Ceramic Tiles	4 Resource pts	y=yes				
4. Install Natural Linoleum in Place of Vinyl	5 IAQ/Health pts	y=yes				
5. Use Exposed Concrete as Finished Floor	4 Resource pts	y=yes				
6. Install Recycled Content Carpet with Low VOCs	4 Resource pts	y=yes				
	•					
O. City of Albany Incentives						
1. 15% better than Title 24 Energy Calcs	Required			I		
1. Additions less than 50% increase in floor area	10 Resource pts	y=yes				
2. Additions less than 200sq.ft. or resulting in less than 1,500sq.ft.	15 Resource pts	y=yes				
Seismic upgrade of existing building (5 pts bolts;	20 Resource pts	y=yes				
5 pts soft story brace; 5 pts roof diaphram; 3 pts gas shutoff; 2 pts kit)	20 1 000 0100 pts	, ,00				
4. Installation of AC	-10 Resource pts	y=yes				
6. Plant more than one street tree when feasible	2 IAQ/Health pts	y=yes				
7. Comply with Voluntary Calif. Green Bldg Standards Code	30 Resource pts	y=yes				,
John Philippe Com. Groot Diag Standards Gods	50 Nesource pro	<i>yy</i> c3				

Small Commercial Green Building Checklist



This Commercial Checklist is intended to address new construction and renovations/expansions up to 10,000 square feet or \$3 million. Projects are recommended to meet all applicable measures on the checklist. For measures that are not applicable or are not in the project's scope of work, select "N/A" and make a note of why the measure does not apply to the project. For appendices, electronic copies of this checklist, and other green building resources, visit www.buildgreennow.org.

			Project:		
			Address:	Date:	
				Site	12.702 A 17.702 27.702 27.703
gas er	nissions	Allo	re transportation sources reduces the number of sing wing space for bike parking increases participation ir nmer days in urban environments that contribute to h	le passenger vehicle trips, reduces traffic congestion, and saves fu a alternative transportation services. Cool sites and roofs reduce the igher energy use and pollution.	el and associated greenhouse e amount of heat stored and re-
Yes I	No N/A		Measure & Requirement	Documentation	Notes
		1.	. Alternative Transportation Access		
			Project is located within 1/4 mile of two or more bus lines AND/OR within 1/2 mile of a light rail or commuter rail transit stop (BART, Amtrak, etc.). Project also includes bicycle racks or storage areas for use by building occupants (workers) in a secure and covered area. If the project is in a high use public area, provide bicycle racks and/or storage options for visitors to the building as well. Provide bike racks or storage area capable of securing at least 1 bike for every 2,000 sf of building space.	Provide a simple map showing distances to public transit stops from the main entry of the buildings. Use the "Nearby Routes & Services" calculator on the www.511.org website or other transit agency website to calculate distances from the project address. Provide a site plan that shows bike rack/storage locations. Highlight or circle the bike racks/storage areas and provide a total number of bikes able to be parked at the site. Bike racks dedicated to building occupants (workers) should be in a covered and secure location.	
П		2	. Reduced Parking		
		•	Project does not exceed minimum local parking requirements OR the project does not provide any new parking.	Provide proof of the minimum local parking requirements for the site OR provide proof that no parking will be added. Minimum parking requirements usually come from the City. If parking is added, provide a site plan with parking areas highlighted. Total and highlight the number of existing and new parking spaces.	
			100 Marie 196 196 197 page 100 marie 196 197 page 197 pag		
		3	Reduced Heat Island Effect Combine cool roof and/or cool site techniques for 75% of site area being impacted by construction (including roof and all landscaping/hardscapes on site). Cool roofs are reflective surfaces applied to the roof. To find cool roof products, go to www.coolroofs.org and use the "Rated Products Directory". Cool site techniques include pervious surfaces (including open grid pavement and vegetation) and light colored concrete.	1. Site plan with the following areas calculated and clearly visible (if applicable): total site area, building/roof area, photovoltaic array area, landscape area, area of hardscapes under shade (from trees or awnings, etc.), and hardscape area. 2. Calculate the percent of the total site area that includes cool roof and/or cool site techniques. Photovoltaic panels can be exempt from the calculation if mounted on the roof or if they shade hard surfaces (subtract the photovoltaic array area from the total site area). For low-sloped roofs (<2:12), eligible cool roof materials must have a Solar Reflective Index (SRI) of 78 or higher. If SRI is not available for the cool roof product, then products with an initial solar reflectance of 0.70 or higher AND an initial thermal emittance of 0.75 or higher are acceptable. Steep sloped roofs (>2:12) do not need to comply and should have their square footage removed from calculation. 3. Provide manufacturer literature stating the cool roof SRI.	



Yes No N/A	Measure & Requirement	Documentation	Notes
		Water	A CONTRACTOR OF THE CONTRACTOR
	tures reduce water use and sewer costs and reduce of itted Landscapes checklist at <u>www.buildgreennow.org</u>	lemand on water supplies and treatment facilities. For sites that hav L	ve landscapes, see the Bay-
Yes No N/A	H. Water Efficient Plumbing Fixtures The following performance thresholds are required for all new fixtures: 1. Toilets: High Efficiency Toilets (HETs) with flush rate ≤1.28 gallons per flush (gpf). 2. Urinals: Waterless or low-flow with flush rate ≤ 0.5 gpf. 3. Faucets: flow rates ≤ 1.5 gallons per minute (gpm) for all faucets except kitchen sinks. 4. Pre-rinse Spray Valves: flow rates ≤ 2.0 gpm.	1. Floor plan(s) with fixture schedule(s) showing location of all new toilets, urinals, faucets and kitchen pre-rinse spray valves in the project. Include flow rates in the fixture schedule. 2. Specification sections showing that low-flow fixtures are specified for all new fixtures (if specifications are created for the project). 3. Manufacturer literature (cut sheets) showing flush rate of toilets and urinals to be installed, and flow rates for faucets and spray valves.	
	v efficiency minimums results in reduced greenhouse ks to better air sealing, increased insulation, and high	gas emissions, lower utility costs and increased comfort. Another be efficiency equipment.	enefit is higher quality
Yes No N/A	Path 2. Prescriptive: For projects that do not require	e 24 energy modeling, complete Path 1. Check "N/A" in the Path 2 e energy modeling, complete Path 2. Check "N/A" in the Path 1 box	
	Path 1: Building Energy Modeling Beat California minimum energy efficiency standards (Title 24, Part 6) by 10% or more.	Submit Title 24 report for whole building or by component. Percent better than code is determined by energy cost from ECON-1 report.	
	Path 2: For projects that DO NOT require building	ng energy modeling: Complete A&B below.	
	A. Select at least 2 of the following prescriptive	ve energy efficiency measures	
	i. Reduce Lighting Power Density (LPD) in the facility to 90% of code.	1. Provide lighting design plans and/or specifications. 2. Calculate the total LPD and include on plans or in other format. The LPD can be calculated from lighting design plans or from Title 24 submissions. Must be a maximum of 90% of Title 24 LPD. Do not include occupancy sensor or other switches/control strategies in this calculation.	
	ii. Verify outside air economizer operation.	Evaluate economizer operation upon startup. Confirm operation of actuator from minimum position to 100% open. Verify economizer operates per control sequence (outside air, room set point) to meet space requirements.	
	iii. High performance windows - for all windows replaced.	1. Provide plans and/or specifications with window schedule. All new windows must be NFRC rated and have a U-factor no higher than 0.40. Solar Heat Gain Coefficient (SHGC) is dependent on glazing percentage, for buildings with less than 20% glazing, SHGC should be no higher than 0.45. For buildings with more than 20% glazing, SHGC should be no higher than 0.35. 2. Provide manufacturer cut sheets or other documentation of NFRC label for windows chosen.	
	iv. All new or replaced windows have low- conductivity frames. Metal frames do not qualify, except those with thermal breaks.	Provide window schedule or specifications showing all new or replaced windows frames are vinyl, fiberglass, thermally-broken metal, or other non-metal. Provide manufacturer cut sheet illustrating frame type.	

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s No N/A		Measure & Requirement	Documentation	Notes
		v. High Efficiency HVAC Equipment. All new HVAC equipment must comply with the Consortium for Energy Efficiency (CEE) Tier 1 commercial HVAC standards. See www.buildgreennow.org for a link to the CEE standards or download them at	Provide plans and specifications showing equipment schedule and performance specifications. Provide manufacturer literature confirming compliance with CEE Tier 1 standards.	
		www.cee1.org/com/com-main.php3. vi. Provide on-site renewable energy generation (solar, wind, etc) system capable of producing at least 5% of the building's total electrical load OR	Provide estimated output and percent of building load to be offset with renewable energy system. Calculations to be provided by a licensed solar installer, electrical contractor, or	
	and the second s	at least 10% of the building's hot water demand.	from the CEC rebate application. 2. Provide manufacturer cut sheets for solar panels. If photovoltaics are installed, provide cut sheet for inverter(s).	
		B. Select at least 3 of the following prescriptive	e energy efficiency measures	
		i. Automatic daylight sensors are installed in at least 75% of spaces with exterior non-north facing windows. Automatic sensors must turn lights on, off, or dim depending on amount of daylight. (B.i and B.iii cannot both be attained on the same project).	1. Highlight areas to be daylit on plans (those areas or rooms within 15 feet of skylights or exterior, non-north windows). 2. Highlight locations of daylight sensors. 3. Provide calculation showing that 75% or more of the space in daylit areas (by square feet or rooms) are under daylighting control.	
		ii. Locate occupancy sensors in 40% of intermittent or non regularly occupied spaces (hallways, bathrooms, closets, private offices). Exclude areas containing mechanical equipment or electrical panels which require light for maintenance activities.	1. Provide lighting plans with intermittent/non-regularly occupied spaces highlighted. 2. Highlight occupancy sensors on plans that serve these spaces. 3. Provide calculation showing that 40% or more of the spaces are controlled by occupancy sensors.	
		iii. Multi-level switching in all "daylit" areas (B.i and B.iii cannot both be attained on the same project).	Provide lighting plans with daylit areas highlighted (those areas within 15 feet of skylights or exterior, non-north windows). Confirm electrical design allows for multi-level switching.	
		iv. All new exit signs in the project are to be LED or nuclear. Recommend replacing all existing exit signs as well, even if not in project scope.	Provide lighting plans specifying correct signage product.	
		v. Install ENERGY STAR rated office equipment and appliances. For eligible equipment, at least 75% of all new office equipment and 90% of all new appliances must be ENERGY STAR rated. See www.energystar.gov for product lists.	Submit list of all planned new office equipment and appliances. Calculate the percent of planned office equipment and appliances that are to be ENERGY STAR. If ENERGY STAR products are not available for a particular appliance or piece of equipment, note that on the list and do not include those in the percentage calculation.	
		vi. High efficiency heating: If new furnaces are specified, they will have a minimum energy efficiency of 92 AFUE.	Submit plans or specifications highlighting efficiency of forced air furnace(s). Submit manufacturer cut sheet for furnace(s) and highlight efficiency.	
		vii. High efficiency water heating: Specify gas water heaters above 0.65 EF or preferably a condensing hot water heater at 0.86. Avoid electric hot water heaters. Specify boilers with efficiency of 90% or more. (This excludes all tankless water heaters and any small kitchen or bathroom water heaters under 5 gallons.)	Submit plans or specifications highlighting efficiency of water heater(s) or boiler(s). Submit manufacturer cut sheet for water heaters/boilers and highlight efficiency.	

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Yes No N/A	Measure & Requirement	Documentation	Notes
(viii. Tight ducts: Duct testing and sealing for all ductwork.	Submit evidence that duct sealing and testing will be performed. This could be in the specifications; be a HERS duct testing contract or report; or other documentation that ducts will been sealed and tested. Provide final duct testing report.	
	ix. Develop and implement an Operations & Maintenance (O&M) Plan for the building. Download a guide to green O&M at www.StopWaste.Org/EPP.	1. Develop an O&M plan for the project. The plan should address all that apply: building lighting, heating, cooling, plumbing, solar, rainwater catchment, irrigation/landscaping practices and other systems as well as more general building policies (such as green cleaning, environmental purchasing, etc). The plan should describe accessibility of units, proper maintenance techniques, descriptions of proper use, model numbers & cut sheets, manufacturer contact information for replacement/repair/questions. The plan should include switching/controls diagrams, lighting plans, heating, cooling, plumbing, solar, rainwater, irrigation/landscaping practices. 2. Submit signed O&M plan from the owner saying that the O&M plan will be followed once occupied.	
		The state of the s	
Total .		arerials	
amount of mater	 defering landfills and can save money for building owner the impact on raw materials extraction and disposate the impact of construction waste from landfill via recycling or reuse. 	am statewide. Many of these materials can be reduced, reused or numers through reduced disposal and operating fees. Buying environal at end of life. 1. Prior to construction, complete a construction waste management plan. The City should provide a sample template, or one can be downloaded at www.buildgreennow.org . After construction, provide final waste management plan and verification (service provider weight tags and/or receipts) that	mentally preferable new
		100% of concrete and asphalt concrete were diverted and at least 65% of remaining job site construction waste diverted from landfill via recycling or reuse. If material was taken to a transfer station, a facility average recycling rate must be applied to the amount of material sent to that facility.	
	salvaged/reclaimed materials (including onsite materials 40% combined pre and post consumer); expo		;); recycled content materials (at
ŀ	i. Cabinets & Shelving (includes boxes, face frames and doors). At least 50% of cabinets and shelving (by	Provide finish schedule or specifications with applicable material(s) highlighted. Provide manufacturer literature to support environmental	
	volume or linear feet) meet environmentally preferable criteria.	claims of material (recycled content %, FSC certification, etc.). 3. Provide calculation of applicable material percentage.	



s No N/A	Measure & Requirement	Documentation	Notes
	iii. Doors and Door Cores At least 50% of all doors (by count) meet environmentally preferable criteria.	Provide finish schedule or specifications with applicable material(s) highlighted. Provide manufacturer literature to support environmental claims of material. Provide calculation of applicable material percentage.	
	iv. Countertops and Substrates. At least 50% of all countertops and substrates (by volume or linear feet) meet environmentally preferable criteria.	Provide finish schedule or specifications with applicable material(s) highlighted. Provide manufacturer literature to support environmental claims of material. Provide calculation of applicable material percentage.	
	v. Furniture (Includes systems and stand-alone furniture). At least 75% of all furniture (by number of pieces or by cost) meet environmentally preferable criteria.	Provide finish schedule or specifications with applicable material(s) highlighted. Provide manufacturer literature to support environmental claims of furniture. Provide calculation of applicable material percentage.	
	vi. Ceiling Tiles. At least 75% of all ceiling tile (by square feet) meet environmentally preferable criteria.	Provide finish schedule or specifications with applicable material(s) highlighted. Provide manufacturer literature to support environmental claims of material. Provide calculation of applicable material percentage.	
	vii. Insulation. At least 75% of all insulation (by volume, square feet, or cost) meet environmentally preferable criteria.	Provide finish schedule or specifications with applicable material(s) highlighted. Provide manufacturer literature to support environmental claims of material. Provide calculation of applicable material percentage.	
	viii. Flooring. At least 50% (by square feet) of all flooring (exposed or stained concrete) or floor coverings (carpet, resilient flooring, tile, hardwood, etc.) meet environmentally preferable criteria.	Provide finish schedule or specifications with applicable material(s) highlighted. Provide manufacturer literature to support environmental claims of material. Provide calculation of applicable material percentage.	
	ix. Flyash in Concrete Achieve 15% flyash as percentage of portland cement for all new concrete poured.	Provide proposed mix designs showing flyash as percentage of portland cement. Provide calculation showing planned 15% flyash for total new poured concrete (ensure that flyash is percentage of portland cement).	
	x. Exterior Paint. At least 50% of all exterior paint (by square footage or volume) is recycled content (40%+).	Provide finish schedule or specifications with applicable material(s) highlighted. Provide manufacturer literature showing recycled content. Provide calculation of applicable material percentage.	
	xi. Low-Emitting Interior Paint. All interior paints are low emitting: ≤ 50 grams/liter for flat paints, ≤ 150 g/L for non-flat paints and other coatings.	Provide finish schedule or specifications with applicable material(s) highlighted. Provide manufacturer literature to support environmental claims of material. Provide documentation that all paints and coatings are lowemitting. Provide MSDS sheets.	
	xii. Low-Emitting Adhesives & Sealants. All adhesives and sealants are low-emitting according to the South Coast Air Quality Management District Rule 1168 (see www.agmd.gov/rules/req/reg11/r1168.pdf for VOC limits).	Provide finish schedule or specifications with applicable material(s) highlighted. Provide manufacturer literature to support environmental claims of material. Provide documentation that all adhesives and sealants are low-emitting. Provide MSDS sheets.	



Yes No N/A	Measure & Requirement	Documentation	Notes
	xiii. Low-Emitting Carpeting. All carpeting, carpet pads, and adhesives are certified Green Label Plus per the Carpet and Rug Institute (CRI). See www.carpet-rug.org for label requirements and product lists.	Provide finish schedule or specifications with applicable material(s) highlighted. Provide manufacturer literature to support environmental claims of material. Provide CRI Green Label Plus documentation.	
	xiv. Low-Emitting Composite Wood. All interior composite wood (MDF, plywood. particleboard, etc.) contain no added urea formaldehyde.	Provide finish schedule or specifications with applicable material(s) highlighted. Provide manufacturer literature to support environmental claims of material. Provide MSDS sheets of composite wood.	
	8. Collection of Recyclables		
	Encourage ongoing recycling by providing at least as much bin volume for recycling as for waste. Additionally, recycle at least 5 of the following material streams: glass, plastic, cardboard, aluminum, food scraps, hazardous waste (fluorescent lamps, batteries, oil, etc.), and e-waste (computer equipment).	Provide plans showing recycling receptacles are provided in all applicable areas: offices, private rooms, meeting rooms, kitchens, etc. Provide calculation of adequate recycling volume. Provide evidence of recycling for at least 5 of the material streams. Submit recycling hauler information for recyclables and food scraps. Provide a short narrative on how the facility will collect and recycle hazardous and e-waste.	
	the second secon		244.943.94
Effective dayli smaller, simpl the electric ligi Yes No N/A	ghting and natural ventilation may improve indoor environr er HVAC systems, which can reduce the project's first cost	mental quality. Natural ventilation can reduce heating and cooling it. Ventilation (natural or mechanical) improves indoor air quality. It 1. Provide site plans with view areas highlighted (those areas within sightline of skylights or exterior windows). 2. Calculate percent of regularly occupied areas with/without access to views. 3. Provide window schedule showing operable and nonoperable windows.	equirements and may justify Daylighting can offset some of
	operable windows.		:
		The second secon	adazar 1982 (1 1887) 3 1849 1991 (1 1999) (1 19
	10. Fresh Air Monitors for Densely Occu	pied Spaces 1. Provide mechanical plans with CO2 monitors highlighted.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	For systems with moveable outside air dampers: For all densely occupied spaces, such as multi-purpose rooms or conference rooms, provide CO2 monitors with alarms (example: small visual indicator such as a light to alert building occupants or building operator), and the ability to manually adjust air flow.	2. Confirm alarm function (user adjustable) of Building Automation System. Verify control sequence resulting from "alarm" in Sequence of Operations. 3. Provide Title 24 "Acceptance" forms. 4. Written confirmation that testing, adjusting and balancing (TAB) contractor will adjust and balance the moveable outside air damper to provide cooling as required for air conditioning the space. When CO2 monitor located within referenced AC unit's conditioned space sends an alarm signal the economizer damper actuator shall open outside air damper to provide 30% more air than the minimum damper setting.	

Single Family GreenPoint Checklist

Single Family GreenPoint Checklist	date:		Build I	t Green
The GreenPoint checklist tracks green features incorporated into the home. The	ne recommended mini-		Smart Solutions I	From The Ground Sip
mum requirements for a green home are: Earn a total of 50 points or more: obt		1 " 3		iring pang
points per category: Energy (11), Indoor Air Quality/Health (5), Resources (6).				
the prerequisites A.3.a (50% construction waste diversion) and N.1 (Incorporate				200
in blueprints).				
The medical in the control of the co	struction Groen Building			
Gestain es, et et et et august billareen.org.				
		>		T
EVELD DEATH OF THE SERVICE		Community	Energy 	Resources Water
ENTER PROJECT NAME		E E	Energy 	Resour
Contraction of the Contraction o		ပိ	₹	W ₃
A. SITE			Possible Po	oints
1. Protect Native Soil and Minimize Disruption of Existing Plants & Tre	es			
a. Protect Native Topsoil from Erosion and Reuse after Construction				1
b. Limit and Delineate Construction Footprint for Maximum Protection				1
2. Deconstruct Instead of Demolishing Existing Buildings On Site				
3. Recycle Job Site Construction Waste (Including Green Waste)				
a. Minimum 50% Waste Diversion by Weight (Recycling or Reuse) - Re	quired			R
b. Minimum 65% Diversion by Weight (Recycling or Reuse)				2
c. Minimum 80% Diversion by Weight (Recycling or Reuse)				2
4. Use Recycled Content Aggregate (Minimum 25%)	and the second of the second o			
a. Walkway and Driveway				j
b. Roadway Base				9.
The second secon				
B. LANDSCAPING			Possible Po	oints
1. Construct Resource-Efficient Landscapes	and a contract of the contract		control or control of the	Annual Control of the
a. No Invasive Species Listed by Cal-IPC Are Planted				1
b. No Plant Species Will Require Hedging				1
c. 75% of Plants Are California Natives or Mediterranean Species				1
2. Use Fire-Safe Landscaping Techniques		1		
3. Minimize Turf Areas in Landscape Installed by Builder		2 1 1		
a. All Turf Will Have a Water Requirement Less than or Equal to Tall Fer	scue			2
b. Turf Shall Not Be Installed on Slopes Exceeding 10% or in Areas Les	s than 8 Feet Wide			2
c Turf is <33% of Landscaped Area				e ³
d Turf is <10% of Landscaped Area				2
4. Plant Shade Trees	•	!	2	į
5. Implement Hydrozoning: Group Plants by Water Needs	2 10 10 10 10 10 10 10 10 10 10 10 10 10			*
6. Install High-Efficiency Irrigation Systems				
a. System Uses Only Low-Flow Drip, Bubblers, or Low-flow Sprinklers				1.
b. System Has Smart (Weather-Based) Controllers				2
7. Apply Two Inches of Compost in the Top 6 to 12 Inches of Soil				2.
8. Mulch All Planting Beds to the Greater of 2 Inches or Local Water O	dinance Requirement			1
9. Use 50% Salvaged or Recycled-Content Materials for 50% of Non-Pla	ant Landscape Elements			1
10. Reduce Light Pollution by Shielding Fixtures and/or Directing Ligh	l Downward			
E ALTERNATION CONTINUE CONTINU				
C. FOUNDATION			Possible Po	oints
1. Incorporate Recycled Flyash in Concrete		ge 4 mar 1 man		
a. Minimum 20% Flyash				1
b. Minimum 25% Flyash				1
2. Use Frost-Protected Shallow Foundation in Cold Areas (C.E.C. Clim	ate Zone 16)			
3. Use Radon Resistant Construction (In At-Risk Locations Only)			i	
	agantini ta timpi t a mandada ayan yangan manata i sa			
D. STRUCTURAL FRAME & BUILDING ENVELOPE	The second with the second sec		Possible Po	oints
1. Apply Optimal Value Engineering				
a. 2x4 Studs at 24-Inch On Center Framing		100		Ç mare d
b. Door and Window Headers Sized for Load		Ann and and and		4
 c. Use Only Jack and Cripple Studs Required for Load 				1

EN	TER PROJECT NAME	Commu	Energy IAQ/Hea	Resourc	Water
	2. Use Engineered Lumber	Series Control	m 4	<u> </u>	
	a. Beams and Headers	F104104 A MIT			
	b. Insulated Engineered Headers				
	c. Wood I-Joists or Web Trusses for Floors				
님	d. Wood I-Joists of Web Husses Ish Hoors				
		4			
	e. Engineered or Finger-Jointed Studs for Vertical Applications 3. Use FSC-Certified Wood				
	a. Dimensional Studs: Minimum 40%	,			
	b. Dimensional Studs: Minimum 70%				
	c. Panel Products: Minimum 40%				
	d. Panel Products: Minimum 70%				
님	and the contract of the contra				
Н	4. Design Energy Heels on Trusses (75% of Attic Insulation Height at Outside Edge of Exterior Wall)				
	5. Design Trusses to Accommodate Ductwork				
	6. Use Oriented Strand Board (OSB)			4 4 4	
	a. Subfloor	mps 00000			
느느	b. Sheathing				
	7. Use Recycled-Content Steel Studs for 90% of Interior Wall Framing				
	8. Use Solid Wall Systems (Includes SIPs, ICFs, & Any Non-Stick Frame Assembly)			gen,	
	a. Floors			7 5	
	b. Walls				
H	c. Roofs				
	9. Thermal Mass Walls: 5/8-Inch Drywall on All Interior Walls or Walls Weigh more than 40 lb/cu.ft.				
	10. Design and Build Structural Pest Controls				
	 a. Install Termite Shields & Separate All Exterior Wood-to-Concrete Connections by Metal or Plastic Fasteners/Dividers 				
	b. All New Plants Have Trunk, Base, or Stem Located At Least 36 Inches from Foundation 11. Reduce Pollution Entering the Home from the Garage				
П	a. Tightly Seal the Air Barrier between Garage and Living Area	- Address - Control			**
	b. Install Separate Garage Exhaust Fan	4			
	12. Install Overhangs and Gutters	Luena access e		The second of the second	
П	a. Minimum 16-Inch Overhangs and Gutters	1 market			
	b. Minimum 24-Inch Overhangs and Gutters	5			į
E EW	TENIAD CANCII		Danaible D		
E. EX	TERIOR FINISH 1. Use Recycled-Content (No Virgin Plastic) or FSC-Certified Wood Decking	A 10 MILLS 1 1 1 1	Possible Po	omis	
<u> </u>	**************************************	and with a state of the state o			
片	2. Install a Drainage Plane (Rain Screen Wall System)				
H	3. Use Durable and Non-Combustible Siding Materials				
	4. Select Durable and Non-Combustible Roofing Materials	L			
E DI I	UMBING		Possible Po	ninte	
r. FL	1. Distribute Domestic Hot Water Efficiently	L	1.0221016.1.7	JIHIO	
	a. Insulate Hot Water Pipes from Water Heater to Kitchen			1 Marian 1	
	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				
П	c. Locate the Water Heater within 25 feet of All Hot Water Fixtures and Appliances				
H	d. Use Engineered Parallel Piping	÷			
H	2. Install Only High Efficiency Toilets (Dual-Flush or <=1.3 gpf)				at an i
<u> </u>	an invance of the financial training training to the first training to the second seco				
G. AP	PLIANCES		Possible Po	oints	** * :
	1. Install ENERGY STAR Dishwasher			The second second	
	a. ENERGY STAR	and the second s			
\sqcap	b. Dishwasher Uses No More than 6.5 Gallons/Cycle				+
Π	2. Install ENERGY STAR Clothes Washing Machine with Water Factor of 6 or Less				3
	3. Install ENERGY STAR Refrigerator	na a maria di santa d		The Labor The Average Control	
	a. ENERGY STAR: 15% above Federal Minimum				
\Box	b. Super-Efficient Home Appliance Tier 2: 25% above Federal Minimum				
	4. Install Built-In Recycling Center				
mark and the second of the second of	A DESCRIPTION OF THE PROPERTY				

ENTER PROJECT NAME	Community	Energy	AQ/Health	Resources	ter
	Ē	Ē	IAC	Ş.	Water
H. INSULATION		Pos	sible Po	ints	
1. Install Insulation with 75% Recycled Content	year some committee				
a. Walls and/or Floors	1			į	
b. Ceilings				1	
2. Install Insulation that is Low-Emitting (Certified Section 01350)	,				
a. Walls and/or Floors	1		1		
b. Ceilings			1		
3. Pre-Drywall Inspection Shows Quality Installation of Insulation		1			,
TANDER ATTORNEY ATTORNEY AND CONDITIONING		Doc	oible De	into	
I. HEATING, VENTILATION & AIR CONDITIONING 1. Design and Install HVAC System to ACCA Manual J, D, and S Recommendations		4	sible Po	nus	
2. Install Sealed Combustion Units					
			>		
a. Furnaces			- 4		
b. Water Heaters A No Sirankas as Scaled Cas Finances with Efficiency Pating Not Loss Than 60%		en.,	1		~
3. No Fireplace or Sealed Gas Fireplace with Efficiency Rating Not Less Than 60% 4. Install ENERGY STAR Ceiling Fans with CFLs in Living Areas and Bedrooms				terrene e e e e e e e e e e e e e e e e e	
5. Install Mechanical Ventilation System for Nighttime Cooling (Points are Cumulative up to 3)					
a. Whole House Fan	f				
b. Automatically Controlled Integrated System		"1			
c. Integrated System with Variable Speed Control		- A			
6. Install Air Conditioning with Non-HCFC Refrigerants					
7. Design and Install Effective Ductwork					
a. Install HVAC Unit and Ductwork within Conditioned Space		······································	and the same and		
		3			
b. Use Duct Mastic on All Duct Joints and Seams		j.			
c. Install Ductwork under Attic Insulation (Buried Ducts)	1	1.			
d. Pressure Balance the Ductwork System for Master Bedroom		Ţ	*		
e. Protect Ducts during Construction and Clean All Ducts before Occupancy					
8. Install High Efficiency HVAC Filter (MERV 6+)					
9. Install Zoned, Hydronic Radiant Heating with Slab Edge Insulation			<u>-</u>		
10. Install Mechanical Ventilation System					
a. Any Whole House Ventilation System That Meets ASHRAE 62.2		-	6		
b. Install ENERGY STAR Bathroom Fan					
c. All Bathroom Fans Are on Timer or Humidistat		apara a annuncia a a a a a a	1		
11. Use Low-Sone Range Hood Vented to the Outside			1		
12. Install Carbon Monoxide Alarm(s)				ten men anno den en e soutet (Alexa	
T. DELLO DEDICADATA NACO		Poc	sible Po	into	
J. BUILDING PERFORMANCE		FUS	SIDIE FO	11110	
1. Design and Build High Performance Homes (2 points for each 1% above T-24, up to 30 pts) Enter the percent above Title 24 in the cell at left. Any value over 15% will automatically earn 30 points.		30			
2. House Obtains ENERGY STAR with Indoor Air Package Certification	L		5	2	
3. Inspection and Diagnostic Evaluations	ga				
a. Third Party Energy and Green Building Review of Home Plans		1	<u>*</u> .	1	
b. Blower Door Test Performed		1			
c. House Passes Combustion Safety Backdraft Test			1		
The state of the s					
K. RENEWABLE ENERGY		Pos	sible Po	ints	
1. Pre-Plumb for Solar Hot Water Heating		4		********	
2. Install Solar Water Heating System		11.		****	
3. Install Wiring Conduit for Future Photovoltaic Installation & Provide 200 ft ² of South-Facing Roof		2			
4. Install Photovoltaic (PV) Panels	passa accounts or a consession				
a. 1.2 kW System		6			!
b. 2.4 kW System		6			
c. 3.6 kW or more		6	·		

ENTER	PROJECT NAME	Communit	Energy IAQ/Health	Resources	Water
		ပိ	and an examination of the second		Š
L. FINISHE	The state of the s		Possible Po	oints	****
	ovide Permanent Walk-Off Mats and Shoe Storage at Home Entrances				
	e Low/No-VOC Paint	THE STATE OF THE S		construction of authorities	unioni unioni di constitui di c
	Low-VOC Interior Wall/Ceiling Paints (<50 gpl VOCs (Flat) and <150 gpl VOCs (Non-Flat))				
	Zero-VOC: Interior Wall/Ceiling Paints (<5 gpl VOCs (Flat))				
	e Low VOC, Water-Based Wood Finishes (<150 gpl VOCs)				
	e Low-VOC Construction Adhesives (<70 gpl VOCs) for All Adhesives	}			
6. Us	e Recycled-Content Paint e Environmentally Preferable Materials for Interior Finish: A) FSC-Certified Wood, B) Reclaimed Lumber, pidly Renewable D) Recycled-Content or E) Finger-Jointed	1			10 100 100 100 1 000
A	Least 50% of Each Material (1 pt each):	gasperiol de la lace			
a.	Cabinets			1	
b.	Interior Trim				
c.	Shelving			ī	
d.	Doors	1		1	
	Countertops				
	duce Formaldehyde in Interior Finish (Section 01350) for At Least 50% of Each Material Below:				
	Cabinets				
	Interior Trim				
	Shelving				
	Subfloor ter Installation of Finishes, Test of Indoor Air Shows Formaldehyde Level <27ppb	Marion of State of St		and the second	- tips consequently and account of
8. Ar	ter mistanation of rinishes, rescor moon All Shows romandering Level 21 pps	L			tor efer ence - Northern construction of
M. FLOOR	NG		Possible Po	oints	· · · · · · · · · · · ·
A ANDRONOUS AND AND A TOTAL OF THE PARTY OF	e Environmentally Preferable Flooring: A) FSC-Certified or Reclaimed Wood, B) Rapidly Renewable	i en a			
Floo	ring Materials, C) Recycled-Content Ceramic Tiles, D) Exposed Concrete as Finished Floor or E) Recycledent Carpet. Note: Flooring Adhesives Must Have < 50 gpl VOCs.				- 4 date 5
a.	Minimum 15% of Floor Area				
☐ b.	Minimum 30% of Floor Area				
c.	Minimum 50% of Floor Area			J	
	Minimum 75% of Floor Area			1.	and the second of the second
	ermal Mass Floors: Floor Covering Other than Carpet on 50% or More of Concrete Floors				
3. Fl	poring Meets Section 01350 or CRI Green Label Plus Requirements (50% Minimum)	: i			
N OTHER		F	Possible Po	ninte	
N. OTHER	corporate Green Points Checklist in Blueprints - Required		L ozamie Li	oms R	***************************************
A COMPANIES CONTRACTOR	velop Homeowner Manual of Green Features/Benefits				
	ommunity Design Measures & Local Priorities: See the Community Planning & Design section in Chapter 4 of t	he New Hom	e Guidelines fo	or measu	res.
Maxi	mum of 20 points for suggested measures. Local requirements may also be listed here. ter description here				
	ter description here				
	ter description here				
	ter description here				
4. In:	novation: List innovative measures that meet the green building objectives of the Guidelines. Enter up to a maximal klist for suggested measures.	num combine	d total of 20 pt	ts. See Inr	novation
	novation in Community: Enter description here				
	novation in Energy: Enter description here				
	novation in IAQ/Health: Enter description here				
O Ini	novation in Resources: Enter description here				
	novation in Water: Enter description here				
			Boundary Commission		
Summa	rv .		1	*****	
	Points Achieved from Specific Categories	0	0 0	0	0
		Ü	0	1	
	Total Points Achieved				
Project h	as not yet met the recommended minimum requirements				
	Project Score of At Least 50 Points um points in specific categories: Energy (11), IAQ/Health (5), Resources ((6), Wat	er (3)		
	red measures A.3.a and/or N.1	A SERVICE AND ADDRESS OF THE PARTY OF THE PA			

Multifamily GreenPoint Checklist

Multifamily GreenPoint Checklist

The GreenPoint Rated 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: Community (6), Energy (30), Indoor Air Quality/Health (5), Resources (6), and Water (3); and meet the prerequisites B.1.a (50% construction waste diversion), A.8 (exceed Title 24 requirements by 15%), C.10.a (3-year subcontractor guarantee and 20-year manufacturer warranty for shingle roofing), and F.1 (incorporate Green Points checklist in blueprints).

Build It Green is a non-profit organization providing the GreenPoint Rated program as a public service. Build It Green encourages local governments to leverage program resources to support voluntary, market-based programs and strategies.

The green building practices listed below are described in greater detail in the Multifamily Green Building Guidelines, available at www.builditgreen.org/greenpoint-rated/guidelines

 Current	Point Tot	al	0
		The control of the co	Table - Anni material constituent and materials and a superior constituent of the constit

Enter Total Conditioned Floor Area of the Project:
Enter Total Non-Residential Floor Area of Project:
Percent of Project Dedicated to Residential Use

L	 	10	,000
_		 	
	 	 	100%

FN	TER PROJECT NAME	Community	_	saith roes
L-17	TENT NOSECT MANNE	. E	Energy	IAQ/Health Resources Water
B/02/17		ပိ	<u></u> Б	<u> </u>
177	ANNING & DESIGN 1. Infill Sites			1 Column
. П				***********
	a. Project is Located Within an Urban Growth Boundary & Avoids Environmentally Sensitive Sites b. Project Includes the Redevelopment of At Least One Existing Building			
	c. Housing Density of 15 Units Per Acre or More (1 pt for every 5 u/a) Enter Project Density Number (in Units Per Acre)	ļ		5 N
-		1		
	d. Locate Within Existing Community that has Sewer Line & Utilities in Place e. Project Redevelops a Brownfield Site or is Designated a Redevelopment Area by a City			
ш				
	f. Site has Pedestrian Access Within ¼ Mile to Neighborhood Services (1 Pt for 5 Or More, 2 Pts for 10 Or More): 1) Bank 2) Place of Worship 3) Full Scale Grocery/Supermarket		•	
		l		
:				
	The state of the s			
	13) Public Park 14) Pharmacy 15) Post Office			
	16) Restaurant 17) School 18) After School Programs	•		
	19) Commercial Office 20) Community Center 21) Theater/Entertainment	i		
1	22) Convenience Store Where Meat & Produce are Sold.	1		
1	g. Proximity to Public Transit			
-	Development is Located Within.			
	1/4 Mile of One Planned or Current Bus Line Stop			
	1/4 Mile of Two or More Planned or Current Bus Line Stops			
	1/2 Mile of a Commuter Train/Light Raif Transit System			
	h. Reduced Parking Capacity:			
	Less than 1.5 Parking Spaces Per Unit			
	Less than 1.0 Parking Spaces Per Unit			
	2. Mixed-Use Developments			
	a. At least 2% of Development Floorspace Supports Mixed Use (Non-Residential Tenants)			
	b. Half of Above Non-Residential Floorspace is Dedicated to Neighborhood Services			
	3. Building Placement & Orientation			
	a. Protect Soil & Existing Plants & Trees			
	4. Design for Walking & Bicycling	y		
	a. Sidewalks Are Physically Separated from Roadways & Are 5 Feet Wide			
H	b. Traffic Calming Strategies Are Installed by the Developer			
	c. Provide Dedicated, Covered & Secure Bioyole Storage for 15% of Residents			
	d. Provide Secure Bicycle Storage for 5% of Non-Residential Tenant Employees & Visitors 5. Social Gathering Places			
	a. Outdoor Gathering Places for Residents (Average of 50 sf Per Unit Or More)			
	b. Outdoor Gathering Places for Residents (Average of 50 Stiffer Unit Of More) b. Outdoor Gathering Places Provide Natural Elements (For compact sites only)			
	6. Design for Safety and Natural Surveillance			The Manual Control of the Control of
	a. All Main Entrances to the Building and Site are Prominent and Visible from the Street			
I	b. Residence Entries Have Views to Callers (Windows or Double Peep Holes) & Can Be Seen By Neighbors			
	s. Accordance Entires note views to Califers (willows of Debble Feeth Dies) & Califers Seefind Neighbors			

EN	TER PROJECT NAME	Community	Energy	IAQ/Health	Resources	Water
	7. Landscaping		******************			1
	Check here if the landscape area is <10% of the total site area. Projects with <10% landscape area can only check up to 3 boxes	in this se	ction.			
	a. No Plant Species will Require Shearing		man akan ti Ari a danar ata		1	
\Box	b. No plantings are Listed on the invasive Plant Inventory by the California Invasive Plant Council	:			:	
П	c. Specify Drought-tolerant California Natives, Mediterranean or Other Appropriate Species			and a second		1
	d. Create Drought Resistant Soils:			**************************************	*****	
	i Mulch Ail Planting Beds to a Depth of 2 Inches or Greater as Per Local Ordinance					1
Ħ	ii. Amend with 1 Inch of Compost or as per Soil Analysis to Reach 3.5% Soil Organic Matter					1
	e Design & Install High-Efficiency Irrigation System		***************************************			SOCIOSOMESSOS MESSOCIOS FOI
	Specify Smart (Weather-Based) Irrigation Controllers					1
H	ii Specify Brip. Bubblers or Low-Flow Sprinklers for All Non Turf Landscape Areas					1
	f. Group Plants by Water Needs (Hydrozones) in Planting Plans & Identify Hydrozones on Irrigation Plans					1
: -	g. Minimize Turf in Landscape Installed by Builder					
	i. Do Not Specify Turf on Slopes Exceeding 10% or in Areas Less Than 8 Feet Wide	,				1
H	ii. Less Than 33% of All Landscaped Area is Specified as Turf AND All Turf has Water Requirement <= To Tall Fescue					1
لبيا	THE THE REST OF THE TRANSPORT OF THE TRA					
	8. Building Performance Exceeds Title 24 by at least 15%-Required					
	Enter the Persent Above the 2006 Version of Title 24 for Residential and Non-Residential Portions of the Project.	· · · · · · · · · · · · · · · · · · ·				
0%	a. Residences 2 Points for Every 1% Above 2005 T24					
0%	b. Non-Residential Spaces, 2 Points for Every 1% Above 2005 T24					
	9. Cool Site					
	a. At least 30% of the Site Includes Cool Site Techniques					
	10. Adaptable Buildings					
	a. Include Universal Design Principles in Units					
	50% of Units					1
	80% of Units	i				
	b. Live:Work Units Include A Dedicated Commercial Entrance	1				
	11. Affordability					
	a. A Percentage of Units are Dedicated to Households Making 80% or Less of AMI					
	10% of All Units					
H	20%	1				1 3
	30%	1				
H	50% or More	,				
	b. Development Includes Multiple Bedroom Units (At least 1 Unit with 3BR or More at or Less Than 80% AMI)					
	0. Development includes widtiple bedroom onto (A least 1 ont with 35K of Note at of Less than 50% Awily					
EST	1. Construction & Demolition Waste Management Divert a Portion of all Construction & Demolition Waste			ssible Po		
	a. Required Divert 50%				R	
	b. Divert 65%				2	
	c. Divert 80% or more					
	2. Construction Material Efficiencies	- 100000000				
	a. Lumber is Delivered Pre-Cut from Supplier (80% or More of Total Board Feet)				1	
	b. Components of the Project Are Pre-Assembled Off-Site & Delivered to the Project					
	25% of Total Square Footage				2	
ñ	50% of Total Square Footage				.2	
$\overline{\sqcap}$	75% of Total Square Footage or More				2	
	3. Construction Indoor Air Quality (IAQ) Management Plan					1
	a. An IAQ Management Plan is Written & Followed for the Project			2		
	The state of the s					
(हा	RUGIUND 1. Recycled Aggregate	- 70	₩Po	ssible Po	ints	
:	a. Minimum 25% Recycled Aggregate (Crushed Concrete) for Fill, Backfill & Other Uses			*****		
ب.	2. Recycled Flyash in Concrete				***************************************	
	a. Flyash or Slag is Used to Displace a Portion of Portland Cement in Concrete					
	20%				******	
: 님	20% or Mora					

E١	ITER PROJECT NAME	Community	Energy	IAQ/Health	Resources	Water
	3. FSC-Certified Wood for Framing Lumber	· · · · · · · · · · · · · · · · · · ·				
	a. FSC-Certified Wood for a Percentage of All Dimensional Studs:					
	40%	-				
	70%					
	 b. FSC-Certified Panel Products for a Percentage of All Sheathing (OSB & Plywood): 					
	40%					
	70%					
1	4. Engineered Lumber or Steel Studs, Joists, Headers & Beams					
: 🔲	a. 90% or More of All Floor & Ceiling Joists					
	b. 90% or More of All Studs					
	c. 90% or More of All Headers & Beams					
:	5. Optimal Value Engineering Framing					
	a. Studs at 24* Centers on Top Floor Exterior Walls &/or All Interior Walls					
	b. Door & Window Headers Sized for Load					
ļЦ	c. Use Only Jack & Cripple Studs Required for Load .					
	6. Steel Framing					
Ш	a. Mitigate Thermal Bridging by Installing Exterior Insulation (At Least 1-Inch of Rigid Foam)					
!	7. Structural Insulated Panels (SIPs) Or Other Solid Wall Systems					
_	a. SIPs Or Other Solid Wall Systems are Used for 80% of All:					
	Floors					
	Walls					
	Roofs					
_	8. Raised Heel Roof Trusses					
	a. 75% of All Roof Trusses Have Raised Heels					
	9. Insulation					
	a. All Ceiling, Wall & Floor Insulation is 01350 Certified OR Contains No Added Formaldehyde					
Ш	b. All Ceiling, Wall & Floor Insulation Has a Recycled Content of 50% or More					
	10. Durable Roofing Options					
	a. Required: No Shingle Roofing OR All Shingle Roofing Has 3-Yr Subcontractor Guarantee & 20-Yr Manufacturer Warranty				R	
	b. All Sloped Roofing Materials Carry a 40-Year Manufacturer Warranty					
	11. Moisture Shedding & Mold Avoidance					
	a. Building(s) Include a Definitive Drainage Plane Under Siding					
님	b. ENERGY STAR Bathroom Fans are Supplied in All Bathrooms, Are Exhausted to the Outdoors & Are Equipped with Controls					
لا	c. A Minimum of 80% of Kitchen Range Hoods Are Vented to the Exterior					
	12. Green Roofs					
	a. A Portion of the Low-Slope Roof Area is Covered By A Vegetated or "Green" Roof 25%					
	50% or More					
	JU70 UI NIQUE					
D. SV	STEMS			Terror States	CH CON	
	1. Passive Solar Heating		Section in the last of the	and the second		
	a. Orientation: At Least 40% of the Units Face Directly South					
$\bar{\Box}$	b. Shading On All South-Facing Windows Allow Sunlight to Penetrate in Winter, Not in Summer					
\Box	c. Thermal Mass: At Least 50% of the Floor Area Directly Behind South-Facing Windows is Massive					
	2. Radiant Hydronic Space Heating					
	a. Install Radiant Hydronic Space Heating for IAQ purposes (No Forced Air) in All Residences					
	3. Solar Water Heating				Control of the second	
	a. Pre-Plumb for Solar Hot Water					
	b. Install Solar Hot Water System for Preheating DHW					
	4. Air Conditioning with Advanced Refrigerants					
	a. Install Air Conditioning with Non-HCFC Refrigerants					
	5. Advanced Ventilation Practices					
_	Perform the Following Practices in Residences:					
	a. Infiltration Testing by a C-HERS Rater for Envelope Sealing & Reduced Infiltration					
	b. Operable Windows or Skylights Are Placed To Induce Cross Ventilation (At Least One Room In 80% of Units)					
	c. Ceiling Fans in Every Bedroom & Living Room OR Whole House Fan is Used					
_	6. Garage Ventilation					
Ш	a. Garage Ventilation Fans Are Controlled by Carbon Monoxide Sensors (Passive Ventilation Does Not Count)					

T. Low-Microury Lamps: a. Low Microury Products Are Installed Winesever Linear Floorescent Lamps Are Used	EN	TER PROJECT NAME	Community	Energy	IAQ/Health	Resources	Water
b. Low-Mercury Products Are Installed Wheever Compact Fluorescent Lamps Are Used 8. Light Politicion Reduction a Exterior Luminanes Entel No Light Above Hosportal CR Are Dark Sky Certified b. Control light Trisopasis Chilo Naightborring Areas Through Apropriate Fixture Selection & Placement 9. Oraste Electricity Connection a Pre-Wire for Productiace & Plans for Space (Coar Areas on Roof & in Mechanical Room) b. Install Productialises to Offset a Percent of the Project's Total Estimated Electricity Demand 10% 20% 30% or none c. Ecuacional Ossigaly is Provided in a Viewable Fubic Area 18. Elevators a Caraines Elevators Are installed 11. ENERGY STAR Polymolares a Install ENERGY STAR Reflegerators in All Locations ENERGY STAR Appliances a Install ENERGY STAR Reflegerators in All Locations AD Elevators AD Elevators Are installed. AD Elevators Area installed. AD							
B. Light Pollution Reduction a Entert curramens First No. Light Above Hospothal CR Are Dark Sty Centified b. Control light Trisspass Onto Neighboring Areas Through Appropriate Fixture Selection & Placement 9. Ovalue Electricity Centeration a Pow Wor or Protovolitation & Pfant for Space (Clear Areas on Roof & in Mechanical Room) b install Protovolitation is Officed a Percent of the Project S Total Estimated Electricity Demand 10. 10% 20% 20% 30% or more c. Educational Display's Provided in a Viewable Fublic Area 10. Elevators a Central Electricity Rehipperators in All Locations EMERGY STAR® Appliances a Install EMERGY STAR® Appliances b Install EMERGY STAR® Appliances b Install EMERGY STAR® Capillified ADELELatory Ordingrators b Install EMERGY STAR® Capillified ADELELatory Rehipperators in All Locations EMERGY STAR® Capillified Residential grade Districtations in All Locations b Install EMERGY STAR® Capillified ADELELatory Rehipperators in All Locations b Install EMERGY STAR® Capillified ADELELatory Rehipperators in All Locations compared to the Compared Start St		a. Low-Mercury Products Are Installed Wherever Linear Fluorescent Lamps Are Used				:	
a Extent Lummains Emil No Light Above Notionatol CR Are Dank Say Certified Don't of light Trespass Onto Neighboring Areas Through Appropriate Excurs Selection & Placement Onto the Electricity Generation a Pre-Wer for Protocytace & Plant for Space (Clear Areas on Roaf & in Mechanical Room) Install Photocytaces to Offset a Percent of the Project's Total Estimated Electricity Denand 10% 20% 30% or nine 5 Electrons 10 Electrons		b. Low-Mercury Products Are Installed Wherever Compact Fluorescent Lamps Are Used				2	
b. Control light Trespass Onto Noighborring Areas Through Appropriate Fixture Selection A Placoment 9. Onales Electricity Ceneration a. Pre-Wire for Photovoltacs & Plant for Sporce (Dear Areas on Root & in Mechanical Room) b. Install Protovoltacs is Offseri a Percent of the Projects Total Estimated Electricity Demand 1.05 20% 20% 30% or more c. Educational Display is Provided in a Viewable Public Area 1. Electrons a. Greatess Elevators Are Installed 1. ENROY STARN Applications a. Install EMERGY STARN Definitions a. Install EMERGY STARN Definitions EMERGY STARN Definitions b. Install EMERGY STARN Definitions c. Install EMERGY STARN Definitions b. Install EMERGY STARN Definitions b. Install EMERGY STARN Definitions b. Install EMERGY STARN Definitions c. Install EMERGY STARN Definitions b. Install EMERGY STARN Definitions c. Install EMERGY STARN Def		8. Light Pollution Reduction					
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3. Recycling & Waste Collection	П				1.		
a. Residences: Provide Built-In Recycling Center In Each Unit	. =	The state of the s					
		a. Residences: Provide Built-In Recycling Center In Each Unit				2	

EN	TER PROJECT NAME	Community	Energy	IAQ/Health	Resources	Water
	4. Use Low/No-VOC Paints & Coatings		÷	_	-	1
	a. Low-VOC Interior Paints (<50 gpl VOCs (Flat) and <150 gpl VOCs (Non-Flat))					
	In All Residences					
П	In All Non-Residential Areas:					
	b. Zero-VOC: InteriorPaints (<5 gpl VOCs (Flat))					
П	In All Residences	, a				
П	In All Non-Residential Areas:					
	c. Wood Coatings Meet the Green Seal Standards for Low-VOCs					
	In All Residences					
	In All Non-Residential Areas:					
	d. Wood Stains Meet the Green Seal Standards for Low-VOCs					
	In All Nes Residences					
L	In All Non-Residential Areas:					
	5. Use Recycled Content Exterior Paint					
	a. Use Recycled Content Paint on 50% of All Exteriors					*******
	6. Low-VOC Construction Adhesives					
Ш	a. Use Low-VOC Construction Adhesives (<70 gpl VOCs) for All Adhesives					
	7. Environmentally Preferable Materials for Interior Finish					
	Use Environmentally Preferable Materials for Interior Finish: A) FSC-Certified Wood, B) Reclaimed Lumber, C) Rapidly Rene	wable D) Recycl	ed-Conten	t or E) Fin	ger-Join	ted
	a. Residences: At Least 50% of Each Material:					
	i. Cabinets					
	ii. Interior Trim					
	iii. Shelving					
П	iv. Doors					
ī	v. Counterlops					
	b. Non-Residential Areas: At Least 50% of Each Material:					
	i. Cabinets					
	ii. Interior Trim					
		i				
	iii. Shelving				: 1	
	iv. Doors					
Ш.	v. Countertops					
	8. Reduce Formaldehyde in Interior Finish Materials					
	Reduce Formaldehyde in Interior Finish Materials (Section 01350) for At Least 50% of Each Material Below:					
	a. Residences:					
닏	i. Cabinets					
Щ	ii. Interior Trim					
	iii. Shelving					
	iv. Subfloor					
	b. Non-Residential Areas:					
	i. Cabinets			+		
	ii. Interior Trim			1.5		
	iii. Shelving	1				
	iv. Subfloor	i		- 1		
	9. Environmentally Preferable Flooring					
	Use Environmentally Preferable Flooring: A) FSC-Certified or Reclaimed Wood, B) Rapidly Renewable Flooring Materials, C; Concrete as Finished Floor or E) Recycled-Content Carpet. Note: Flooring Adhesives Must Have <50 gpl VOCs.	Recycled-Conte	ent Cerami	c Tiles, D)	Expose	:d
	a. Residences:					:
	i. Minimum 15% of Floor Area					
	ii. Minimum 30% of Floor Area					
	iii. Minimum 50% of Floor Area					
	iv. Minimum 75% of Floor Area					
_	b. Non-Residential Areas:					
	i. Minimum 15% of Floor Area		a reserved write		0	
\sqcap	ii. Minimum 30% of Floor Area				Ü	
Ħ	iii. Minimum 50% of Floor Area				Ö	
H	iv. Minimum 75% of Floor Area				- 41	
	10. Low-Emitting Flooring			· · · · · · · · · · · · · · · · · · ·		
		<u> </u>				
님	a. Residences: Flooring Meets Section 01350 or CRI Green Label Plus Requirements (50% Minimum)	ĺ				
	b. Non-Residential Areas: Flooring Meets Section 01350 or CRI Green Label Plus Requirements (50% Minimum)					

EN'	TER PROJECT NAME	Community	Energy	IAQ/Health	Resources	Water
 	11. Durable Cabinets					
	Install Durable Cabinets in All:					
	a. Residences					
	b. Non-Residential Areas				0	
	12. Furniture & Outdoor Play Structures			~~~		
	a. Play Structures & Surfaces Have an Overall Average Recycled Content Greater Than 20%				ì	
	b. Environmentally Preferable Exterior Site Furnishings			,	1.	
Ц	c. At Least 25% of All newly Supplied Interior Furniture has Environmentally Preferable Attributes	••••				
	13. Vandalism Deterrence					
	a. Project Includes Vandalism Resistant Finishes and Strategies	1		III. A SHIP III MARKANA	***********	!
(ROI	ILIBIT OF THE TRANSPORT		ō	ssible Po	ints	
V	a. Required Incorporate GreenPoint Checklist in Blueprints	Y				
	2. Operations & Maintenance Manuals					
	a. Provide O&M Manual to Building Maintenance Staff					
	b. Provide O&M Manual to Occupants	,			en e	
	3. Transit Options					
	a. Residents Are Offered Free or Discounted Transit Passes	2				
	4. Educational Signage				adalasa (n. 1911)	
	a. Educational Signage Highlighting & Explaining the Project's Green Features is Included	1				
	5. Vandalism Management Plan					***
	a. Project Includes a Vandalism Management Plan for Dealing with Disturbances Post-Occupancy	1	dan dan .		wy	
	6. Innovation : List innovative measures that meet the green building objectives of the Multifamily Guidelines. Enter up to a 4 Points local jurisdiction or GreenPoint rater.	in each	category.	Points wil	l be evalu	ated by
0	Innovation in Community: Enter up to 4 Points at left. Enter description here					
0	Innovation in Energy: Enter up to 4 Points at left. Enter description here					
0	Innovation in IAQ/Health. Enter up to 4 Points at left. Enter description here					
0	Innovation in Resources: Enter up to 4 Points at left. Enter description here					
0	Innovation in Water: Enter up to 4 Points at left. Enter description here	and the second			-	
Sun	nmary					
Juli	Points Achieved from Specific Categories		9 1 2 2 2	n	a	n
		197		l V	the Care	
	Current Point Total			. •		
	ect has not yet met the recommended minimum requirements					
- /	Total Project Score of At Least 50 Points Minimum points in specific categories: Community (6), Energy (30), LaQ/Health (5), R Required messures 6.1a. C.10a, and/or F.1a	esour	ces (6), Wat	er (3)	
- /	roganga i mono do unace onava, anayar resa					

LEED 2009 for New Construction and Major Renovation



LEED 2009 for New Construction and Major Renovation

Date

Project Name

Project Checklist

	Sustai	Sustainable Sites	Possible Points:	26	Wa	Materials and	ls and
z >					~ z		
>	Prereq 1	Construction Activity Pollution Prevention			Cred	Credit 4	Recycle
	Credit 1	Site Selection		,	Cred	Credit 5	Region
	Credit 2	Development Density and Community Connectivity	tivity	5	Cred	Credit 6	Rapidly
	Credit 3	Brownfield Redevelopment		-	Cred	Credit 7	Certifie
	Credit 4.1	Alternative Transportation—Public Transportation Access	ation Access	9			
	Credit 4.2	Alternative Transportation—Bicycle Storage and Changing Rooms	nd Changing Rooms	-	JI.	Indoor Enviro	nvir
	Credit 4.3	Alternative Transportation—Low-Emitting and Fuel-Efficient Vehicles	I Fuel-Efficient Vehicles	٣			
	Credit 4.4	Alternative Transportation-Parking Capacity		2	Y Prer	Prereq 1	Minimu
	Credit 5.1	Site Development—Protect or Restore Habitat			Y Prer	Prereq 2	Enviror
	Credit 5.2	Site Development-Maximize Open Space		-	Cred	Credit 1	Outdoo
	Credit 6.1	Stormwater Design-Quantity Control		-	Cred	Credit 2	Increas
	Credit 6.2	Stormwater Design—Quality Control		1	Cred	Credit 3.1	Constru
	Credit 7.1	Heat Island Effect-Non-roof		_	Crec	Credit 3.2	Constru
	Credit 7.2	Heat Island Effect-Roof		-	Cred	Credit 4.1 Low-En	.ow-Er
	Credit 8	Light Pollution Reduction		-	Cree	Credit 4.2 LOW-En	-ow-Er
The state of the s	N. and			L	Cree	Credit 4.3	Low-En
	Water	Water Efficiency	Possible Points:	10	Cred	Credit 4.4	Low-En
*OA AMANAMANA					Crec	Credit 5	Indoor
>	Prereq 1	Water Use Reduction-20% Reduction			Crec	Credit 6.1 (Contro
	Credit 1	Water Efficient Landscaping		2 to 4	Crec	Credit 6.2 (Contro
	Credit 2	Innovative Wastewater Technologies		2	Cred	Credit 7.1	Therm
	Credit 3	Water Use Reduction		2 to 4	Crec	Credit 7.2	Therm

Possible Points: 35

Energy and Atmosphere

γ	Prereq 1	Fundamental Commissioning of Building Energy Systems	ems	
Y	Prereq 2	Minimum Energy Performance .		
Y	Prereq 3	Fundamental Refrigerant Management		
Ď	Credit 1	Optimize Energy Performance		1 to 19
j,	Credit 2	On-Site Renewable Energy		1 to 7
Ď	Credit 3	Enhanced Commissioning		2
O	Credit 4	Enhanced Refrigerant Management		2
J	Credit 5	Measurement and Verification		3
Ď	Credit 6	Green Power		2
	Aateri	Materials and Resources	Possible Points: 14	14

	 Materi	Materials and Resources	Possible Points:
>	Prereq 1	Storage and Collection of Recyclables	
	Credit 1.1	credit 1.1 Building Reuse-Maintain Existing Walls, Floors, and Roof	Floors, and Roof
	Credit 1.2	credit 1.2 Building Reuse-Maintain 50% of Interior Non-Structural Elements	Non-Structural Elements
	Credit 2	Construction Waste Management	
	Credit 3	Materials Reuse	

				,
	Credit 4	אפרארופת רסוויפווי		7 07
	Credit 5	Regional Materials		1 to 2
	Credit 6	Rapidly Renewable Materials		-
	Credit 7	Certified Wood		
	Indoor	Indoor Environmental Quality	Possible Points:	15
>	Prereq 1	Minimum Indoor Air Quality Performance		
· >	Prereq 2	Environmental Tobacco Smoke (ETS) Control		
	Credit 1	Outdoor Air Delivery Monitoring		_
Control of the Contro	Credit 2	Increased Ventilation		
	Credit 3.1	Construction IAQ Management Plan-During Construction	struction	_
and the same of th	Credit 3.2	Construction IAQ Management Plan-Before Occupancy	upancy	-
	Credit 4.1	Low-Emitting Materials—Adhesives and Sealants		-
	Credit 4.2	Low-Emitting Materials—Paints and Coatings		_
	Credit 4.3	Low-Emitting Materials—Flooring Systems		-
	Credit 4.4	Low-Emitting Materials—Composite Wood and Agrifiber Products	grifiber Products	_
	Credit 5	Indoor Chemical and Pollutant Source Control		-
	Credit 6.1	Controllability of Systems—Lighting		
	Credit 6.2	Controllability of Systems—Thermal Comfort		_
	Credit 7.1	Thermal Comfort—Design		-
	Credit 7.2	Thermal Comfort—Verification		_
	Credit 8.1	Daylight and Views—Daylight		-
and contribution of the same o	Credit 8.2	Daylight and Views-Views		-
e les californisses que un direct social management				
Tittle in charles an excession of the con-	Innova	Innovation and Design Process	Possible Points: 6	9
		(,
	Credit 1.1	Credit 1.1 Innovation in Design: Specific Little		

4	Possible Points:	Regional Priority Credits	Region	
-		Credit 2 LEED Accredited Professional	Credit 2	
_		Credit 1.5 Innovation in Design: Specific Title	Credit 1.5	
_		Credit 1.4 Innovation in Design: Specific Title	Credit 1.4	
-		Gredit 1.3 Innovation in Design: Specific Title	Credit 1.3	
~~		credit 1.2 Innovation in Design: Specific Title	Credit 1.2	
		Credit 1.1 Innovation in Design: Specific Title	Credit 1.1	

Regional Priority: Specific Credit	Regional Priority: Specific Credit	Credit 1.3 Regional Priority: Specific Credit	Credit 1.4 Regional Priority: Specific Credit	
Credit 1.1	Credit 1.2	Credit 1.3	Credit 1.4	

1 to 3

110	
Possible Points: 110	Postminn by to 150
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Total

LEED 2009 for Core and Shell Development

Project Name Date	Ç	2		1 to 5	1 to 2	.	1 to 2	1 to 2	.	12				_	- ·			-	.						9		4	-					4	/	-	-	110
Proj	Doreible Dointe:	rossible rollics.		s, and Koot						Possible Points	2000				:	onstruction	ıts		Agrifiber Products						Possible Points: 6								Possible Points:				Possible Points: 110
	Materials and Descriptor	ומוס מווח ולפסטתו כפס	Storage and Collection of Recyclables	Building Keuse—Maintain Existing Walls, Floors, and Koof	Construction Waste Management	Materials Reuse	Recycled Content	Regional Materials	Certified Wood	Indoor Environmental Ouality	בונונו כיייים לממוני	Minimum Indoor Air Quality Performance	Environmental Tobacco Smoke (ETS) Control	Outdoor Air Delivery Monitoring	Increased Ventilation	Construction IAQ Management Plan—During Construction	Low-Emitting Materials—Adnesives and sealants Low-Emitting Materials—Paints and Coatings			Indoor Chemical and Pollutant Source Control Controllability of Systems—Thermal Comfort	Thermal Comfort—Design				Innovation and Design Process	Innovation in Design: Specific Title				Innovation in Design: Specific Title	LEED Accredited Professional		Regional Priority Credits			regional Priority: Specific Credit Regional Priority: Specific Credit	Total Coracle of Memory Council (Memory Control of Memory)
	10+011	* x *	Y Prereq 1	Credit 1	Credit 2	Credit 3	Credit 4	Credit 5	Credit 6	oopul.		Y Prereq 1	Y Prereg 2	Credit 1	Credit 2	Credit 3	Credit 4.1	Credit 4.3	Credit 4.4	Credit 5	Credit 7	Credit 8.1	Credit 8.2		Noun	Credit 1.1	Credit 1.2	Credit 1.3	Credit 1.4	Credit 1.5	Credit 2		Regio	Credit 1.1	Credit 1.2	Credit 1.4	Total
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LEED 2009 for Core and Shell Development	ب ب ب ب ب ب ب ب ب ب ب ب ب ب ب ب ب ب ب		Construction Activity Pollution Prevention		Development Density and Community Connectivity	Brownfield Redevelopment		Alternative Transportation—Bicycle Storage and Changing Rooms 2	Alternative Transportation—Low-Emitting and Fuel-Efficient Vehicles 3	Aiterijative Halispol tation—Familig Capacity Site Development—Protect or Restore Habitat	Site Development—Maximize Open Space	Stormwater Design—Quantity Control	Stormwater Design—Quality Control	Heat Island EffectNon-roof	Heat Island Effect—Roof	Light Pollution Reduction	renant Design and Construction Guidetines	Possible Points:		Water Use Keduction—20% Keduction Water Efficient Landscaning	pologies			Energy and Atmosphere Points:	Fundamental Commissioning of Building Energy Systems	Minimum Energy Performance	Fundamental Refrigerant Management	nce	>-				: and Verification—Tenant Submetering				
2009 for	inable Cites	ווומסוב אורבי	Construction /	Site selection	Development										~			r Efficie	14/44					gy and					On-Sit	Enhand							
LEED 2009 for	Custainable Cites	Z ~ Z							Credit 4.3 Alternative			Credit 6.1 Stormwate	Credit 6.2 Stormwat		~		Credit 9 enant	Water Efficiency		Prereq 1 Wate			Barrer A a comme	Energy and	Prereg 1 Fundal	Prereg 2 Minim	Prereq 3 Funda	Credit 1 Optim	Credit 2 On-Sit	Credit 3 Enhand			Credit 5.2 Measur				

LEED 2009 for Commercial Interiors

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LEED 2009 for Commercial Interiors Project Checklist

Project Name

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Content Strick Selection 10.5 Y Navier Minimum Lob Performance Content	z	Possible			onmental Quality	Possible Points: 1	17
Corest 1 Development Density and Community Connectivity 6 V Forest 2 Covert 1 Outdoor Air Delivery Monitoring Corest 3 Alternative Transportation - Public Tra	Credit 1	Site Selection	1 to 5		um IAQ Performance		
Creek 13 Alternative Transportation -Public Transportation Access 6 Creek 12 Creek 12 Creek 13 Creek 13 Creek 14 Creek 15 Creek 14 Creek 14 Creek 14 Creek 15 Creek 14 Creek 14 Creek 14 Creek 14 Creek 14 Creek 15 Creek 14 Creek 15 Creek 14 Creek 15 Creek 14 Creek 15 Creek 15 Creek 14 Creek 15 Creek 15 Creek 15 Creek 15 Creek 15 Creek 16 Creek 15 Creek 16 Creek 15 Creek 16 Creek	Credit 2	Development Density and Community Connectivity	9		nmental Tobacco Smoke (ETS) Control		
Creek 13 Alternative Transportation—Parking Availability 2 Creek 13 Construction Moly Management Plan—During Construction Moly Management Plan—Berlore Occured 2 Construction Moly Management Plan—Berlore Occured 2 Construction Moly Management Plan—Berlore Occured 2 Construction Moly Management Plan—Berlore Occured 3 Construction Moly Management Plan—Berlore Occured 3 Construction Moly Management Plan—Berlore Occured 4 Construction Moly Management Plan M	Credit 3.1		9		or Air Delivery Monitoring	_	
Creek 13 Alternative Transportation—Parking Availability 2 Creek 13 Construction luQ Management Plan—Botro Coccurs 14 Low-Emitting Materials—Adhesive and Sealants	Credit 3.2		2		sed Ventilation	-	
Water Efficiency Water Efficiency Possible Points: 11 Creek 1 Low-Emitting Materials—Adhesives and Sealants	Credit 3.3		2		ruction IAQ Management Plan–During Con	nstruction 1	
Water Efficiency Water Efficiency Water Efficiency Possible Points: 11 Corest 2 Low-Emitting Materials—Paints and Coatings	The state of the s				ruction IAQ Management Plan—Before Occ	cupancy 1	
Perent Water Use Reduction	Water	Possible	nts: 11		mitting Materials—Adhesives and Sealants	S	
Preset 1 Water Use Reduction	r				mitting Materials—Paints and Coatings	-	
Fine of the property of Systems Create 1 Create 4 Low-Emitting Materials—Composite Wood and Age		Water Use Reduction-20% Reduction			mitting Materials—Flooring Systems		
Fine transplant Fine trans	Credit 1	Water Use Reduction	6 to 11		mitting Materials—Composite Wood and A	Agrifiber Products 1	
Finergy and Atmosphere Possible Points: 37 Creat s Indoor Chemical & Pollutant Source Control Possible Points: 37 Creat s Indoor Chemical & Pollutant Source Control Preseq	Communication and States ages as managed and a state and an extra section and				mitting Materials—Systems Furniture and	d Seating	
Freeq Fundamental Commissioning of Building Energy Systems Creat a C	Energ	Possible			· Chemical & Pollutant Source Control	•	
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Preseq 2 Minimum Energy Performance Preseq 3 Formal Comfort—Design Preseq 3 Formal Comfort—Design		Fundamental Commissioning of Building Energy Systems			ollability of Systems—Thermal Comfort	***	
Preced 3 Fundamental Refrigerant Management Preced 5 Fundamental Refrigerant Management Preced 11 Optimize Energy Performance—Lighting Power 1 to 3 Credit 13 Optimize Energy Performance—Lighting Controls 1 to 3 Credit 13 Optimize Energy Performance—Lighting Controls 1 to 3 Credit 13 Optimize Energy Performance—Lighting Controls 1 to 4 Innovation in Design Specific Title	n a esperg	Minimum Energy Performance		•	nal Comfort-Design	-	
Creat 1. Optimize Energy Performance—Lighting Power	9000 o 18 oo	Fundamental Refrigerant Management			nal Comfort—Verification	<u> </u>	
Creat 1.2 Optimize Energy Performance—Lighting Controls 1 to 3 Creat 8.2 Daylight and Views—Views for Seated Spaces 1 to 4 Innovation and Design Process 1 to 4 Innovation and Design Process 2 to 5 Creat 1.1 Innovation in Design: Specific Title Creat 3 Masurement and Verification 5 Creat 1.1 Innovation in Design: Specific Title Creat 1.2 Innovation in Design: Specific Title Creat 1.3 Innovation in Design: Specific Title Creat 1.3 Innovation in Design: Specific Title Creat 1.1 Innovation in Design: Specific Title Creat 1.1 Innovation in Design: Specific Title Creat 1.2 Innovation in Design: Specific Title Creat 1.3 Innovation in Design: Specific Credit Creat 1.3 Innovation in Design: Specific Title Creat 1.3 Innovation in Design: Specific Credit Creat 1	Credit 1.1		1 to 5		ht and Views—Daylight	-	to 2
Creekt 1.3 Optimize Energy Performance—HVAC 1 to 4	Credit 1.2		1 to 3		ht and Views—Views for Seated Spaces	•	!
Credit 1.4 Optimize Energy Performance — Equipment and Appliances 1 to 4	Credit 1.3		5 to 10			•	
Credit 2 Enhanced Commissioning 2 to 5 Credit 1.1 Innovation in Design: Specific Title 2 to 5 Credit 1.2 Innovation in Design: Specific Title Credit 1.3 Innovation in Design: Specific Title Credit 1.1 Tenant Space—Long-Term Commitment Credit 1.2 Building Reuse Credit 2.3 Materials Reuse Credit 3.1 Regional Priority: Specific Credit Title Credit 1.2 Regional Priority: Specific Credit Title Credit 1.2 Regional Priority: Specific Credit Credit 1.2 Regional Priority: Specific Credit Title Credit 1.2 Regional Priority: Specific Credit Credit Credit 1.2 Regional Priority: Specific Credit	Credit 1.4		1 to 4	Innovation	and Design Process		
Credit 3 Measurement and Verification 2 to 5 Credit 1.1 Innovation in Design: Specific Title	Credit 2	Enhanced Commissioning	. 70				•
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Tenant Space—Long-Term Commitment Building Reuse Construction Waste Management Materials Reuse—Furniture and Furnishings Acretic 1.1 Regional Priority: Specific Credit Regional Materials Total Credit 1.4 Regional Priority: Specific Credit Total Credit 1.4 Regional Priority: Specific Credit Acretic 1.5 Regional Priority: Specific Credit Total Credit 1.4 Regional Priority: Specific Credit Acretic 1.5 Regional Priority Credit Acretic 1.5 Regional Priority Credit Acretic 1.5 Regional Priority Credit Acretic 1.5 Regional Prio		Storage and Collection of Recyclables			Accredited Professional	_	
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1 Materials Reuse 2 Materials Reuse—Furniture and Furnishings 2 Materials Reuse—Furniture and Furnishings 3 Materials Reuse—Furniture and Furnishings 4 To 2 Credit 1.1 Regional Priority: Specific Credit 5 Total 7 Total 7 Total 8 Regional Priority: Specific Credit 7 Total 7 Total 8 Regional Priority: Specific Credit 7 Total 8 Regional Priority: Specific Credit 9 Priority: Specific Credit 1 to 2 Credit 1.4 Regional Priority: Specific Credit 1 Total 9 Priority: Specific Credit 1 to 2 Credit 1.4 Regional Priority: Specific Credit 1 to 2 Credit 1.4 Regional Priority: Specific Credit 1 to 2 Credit 1.4 Regional Priority: Specific Credit	Credit 2	Construction Waste Management	1 to 2	Four executions designed was recommended and the second se			
2 Materials Reuse—Furniture and Furnishings Recycled Content Recycled Content Regional Priority: Specific Credit 1 to 2 Credit 1.3 Regional Priority: Specific Credit 1 to 2 Regional Priority: Specific Credit 1 to 2 Credit 1.4 Regional	Credit 3.1		1 to 2		nal Priority: Specific Credit	1	
Recycled Content Regional Materials Regional Materials Total Regional Priority: Specific Credit Total Credit 1.3 Regional Priority: Specific Credit Total Certified Wood Certified Wood	Credit 3.2		_		nal Priority: Specific Credit	1	
Regional Materials Rapidly Renewable Materials 1	Credit 4	Recycled Content	1 to 2		nal Priority: Specific Credit	1	
Rapidly Renewable Materials Certified Wood Certified Wood Certified Wood	Credit 5	Regional Materials	1 to 2		nal Priority: Specific Credit	•	
Certified Wood Certified Wood Certified Wood	Credit 6	Rapidly Renewable Materials	_				
Silver 50 to 59 points - Gold 60 to 79 points	Credit 7	Certified Wood		Total		Possible Points:	110
				Certitied 40 to 49 p	Silver 50 to 59 points	ts Platinum 80 to 110	

Bay-Friendly Scorecard for Commercial & Civic Landscapes

Bay-Friendly Scorecard for Commercial & Civic Landscapes

2008 Version	<u> </u>		T <u>.</u>		۸ .	124	
This scorecard tracks Bay-Friendly features incorporated into the design and	Landscape Locally	to Landfill	Nurture the Soil	Conserve Water	Conserve Energy	Water and Air Quality	
constructon of new landscapes. The minimum requirements for a Bay-Friendly	pe L	la l	e t) 	S H	er a	ate Wild Habitat
Landscape are: earn a total of 60 points or more; and complete the 9 required	dsca	Less to	Ę	nser	Jser	Vat	Eate
practices indicated by the "R" in the columns labeled "Possible Points."	Lan	ျ	Z	ਹੈ	්		טֿ
A. Site Planning	P	o s s	IB	LE	PC	IN	T S
Select and evaluate the site carefully				W.			
a. Submit the completed Bay-Friendly Site Analysis before 100% design development documents	5						
b. The site is located within an urban growth boundary and avoids environmentally sensitive sites	3						
c. The site development results in the clean up of a contaminated site (i.e. brownfield) or is in a designated redevelopment area						3	
2. Consider the potential for fire					. 53		
a. For sites adjacent to fire sensitive open space or wildlands only: Submit a Fire Mitigation Plan	5						
3. Keep plant debris on site							
a. Produce mulch from plant debris							
1. Design documents specify areas under tree & shrub canopies and at least 10 feet away from hard surfaces and storm drains, to be used as a leaf repository for mulch							
 ii. Construction documents specify that of the trees identified for removal, some are chipped for use as mulch onsite 		ı					
b. Produce compost from plant debris							
i. A site for composting is included in landscape plans. Systems for composting up to and including 3 cubic yards at one time		week					
ii. Systems for composting more than 3 and up to 10 yards at one time (total 2 points)		1					
iii. Systems 10 cubic yards or larger (total 3 points)		1					
4. Reduce and recycle waste			1				
a. An easily accessible area is dedicated to the collection and storage of materials for recycling		2					
5. Minimize site disturbance				:			
a. On greenfield sites, limit site disturbance to protect topography, vegetation and hydrology (total 3 points)	ı					ı	ı
b. On previously developed sites, restore vegetation and hydrology (total 3 points)	1					Ī	-
6. Provide water and/or shelter for wildlife such as birdhouse, bathouses, boulders, logs, wood piles, large native shrubs or trees							_
7. Conserve or restore natural areas & wildlife corridors				1			
a. The landscape is designed to preserve 80% of existing mature healthy trees and penalties for destruction of protected trees are included in construction contract							2
b. The landscape is designed to increase open space compared to its previous use and/or to connect it to other open space or wildlife corridors							2
 c. Create or protect a diverse plant buffer of low maintenance vegetation along creeks, shorelines or monocultured landscaped areas 							2

		Landscape Locally	Less to Landfill	Nurture the Soil	Conserve Water	ပိ	Water and Air Quality	J
B. Stormwater and Site Drainage		P	o s s	l B	LE	PO	IN	TS
Minimize impervious surfaces a. Permeable paving, gravel or other porous surfaces are installed for								
i. 25% OR			Т			Γ		
ii. 33% (total 3 ponts) OR						-	2	
iii. 50% of the paved area (total 5 points)					-		2	
b. No impervious surfaces directly connect to the storm drain							2	
Design a system to capture and filter storm water	1.0				L	L		<u> </u>
a. Capture and filter runoff from parking lots into landscape beds, vegetated swale landscape stormwater bmps	es or other						2	
b. Incorporate landscape measures,including vegetated swales, infiltration planters, basins and/or stormwater wetlands, that are designed to capture and filter 85% annual stormwater runoff OR							2	-
c. Designed to capture and filter 100% of average annual runoff (total 4 points)							2	
d. Bioswales specify flat bottoms of at least 18 inches across and/or rock cobble a concentrated flow	it points of						ı	
e. Turf is not specified in bioswales							I	
f. Direct rain water from all down spouts to planters, swales or landscaped areas							ı	
ster and side age (
C Earthwork and Soil Health		<u>.</u>						<u> </u>
I. Assess the soil and test drainage	853							1
a. Submit laboratory soil analysis results and recommendations for compost and na fertilizers (total 3 points)	atural	2		- 1				
2. Remove and store topsoil before grading								
a. The removal, temporary storage, and re-spreading of topsoil is specified in the I design documents AND specifications include a maximum topsoil pile height of well as measures to protect the stored topsoil from erosion				2				
3. Protect soil from compaction								
Grading specifications and construction plans call for the installation and maintefencing to prohibit parking or materials staging in areas identified for protection.				2				
b. Design documents specify that soil is not worked when wet				1				
4. Aerate compacted soils			1					
a. Design documents include specification to alleviate compacted soils to a depth 8 inches, before planting, for all landscaped areas that can not be protected dur construction				ı				
b. Design documents include specification to alleviate compacted soils to a depth 12 inches, before planting, for all landscaped areas that can not be protected duconstruction (total 2 points)				ı				
5. Feed soils naturally & avoid synthetic fertilizers	11 12 12 12 12 12 12 12 12 12 12 12 12 1		1					
5. Fertilipers or soil amendment materials prohibited by Organic Materials Research in its generic materials list are prohibited in construction of the project	n Institute			l				
6. Mulch								
 a. Required: Planting specifications and plans indicate that after construction, all so protected with a minimum of 3 inches of recycled mulch 	il on site is			R				





	Landscape Locally	Less to Landfill	Nurture the Soil	Conserve Water	Conserve Energy	Water and Air Quality	Create Wildlife Habitat
7. Amend the soil with compost before planting	P	o s s	(B	L E	PΟ	N	T S
a. Quality compost is specified as the soil amendment, at the rates indicated by a soil analysis, to bring the soil organic matter content to a minimum of:							
i. Required: 3.5% by dry weight OR 1 inch of quality compost OR				R	I]	
ii. 5% by dry weight OR (total 2 points)			<u> </u>	1	1		
iii. Specify the use of compost from processors that participate in the US Composting Council's Standard Testing Assurance program				ı			
8. Use IPM design and construction practices to prevent pest problems	\$ 16	1 013		. 194			
a. Sheet mulch is specified for weed control (total 3 points)	illia	Ī	1			2	
b. Synthetic chemical pre-emergents are prohibited						2	
9. Keep soil & organic matter where it belongs	9". 		1 4			::	201
a. Compost berms or blankets or socks are specified for controlling erosion (total 2 points)		T	1			Ī	
a like in the distriction of the 2 points.							
D. Materials							
Use salvaged items & recycled content materials		144	SANDA.	134		1998	
 a. Non-plant landscape materials are salvaged or made from recycled content materials or FSC certified wood: 							
i. Decking (100% of non structural materials)		Ī					
ii. Fencing (100% of non structural materials)		2					
iii. Outdoor furniture such as bike racks, benches, tables and chairs (50% minimum)		2					
iv. Planters or retaining walls (100% of either or both)		1					
v. Parking stops or lighting/sign posts (100% of either or both)		ī					
vi. Play structures or surfaces (100% of either or both)		2					
vii. Edging or decorative glass mulch (100% of either or both)		ı					
 A minimum 25% of recycled aggregate (crushed concrete) is specified for walkway, driveway, roadway base and other uses 		2					
c. Replace Portland cement in concrete with flyash or slag		•		1			
i. 20%	1						
ii. 25% (total 2 points)		1					
d. Purchased compost and/or mulch is recycled from local, organic materials such as plant or wood waste		1					
i. 100% of compost OR 100% of mulch		1					
II. 100% of both (total 2 points)	1	1					
2. Reduce and recycle landscape construction waste		Adfo.	1 (4) - 1 (4)				ivi.
a. Required: Divert 50% of landscape construction and demolition waste.		R					
b. Divert 100% of asphalt and concrete and 65% of remaining materials OR		2					
c. Divert 100% of asphalt and concrete and 80% of remaining materials (total 4 points)		2					
d. Donate unused materials		Ī					
3. Reduce the heat island effect with cool site techniques	100	4		1.65			MD.
a. at least 50% of the paved site area includes cool site techniques					2		



	Landscape Locally	Less to Landfill	Nurture the Soil	Conserve Water	Conserve Energy]	Create Wildlife Habitat
ighting carefully	PO) S S	IB	LE	PC	IN	T S
energy fixtures are specified for all site lighting		I			2	· · · · ·	
tovoltaic is specified for site lighting	· 	i				l	
ath lighting is solar powered	!	I	1		1		
of all other site lighting is solar powered	-				2		
% of all other site lighting is solar powered (total 4 points)					2		
uce light pollution and trespass: exterior luminaries emit no light above horizontal or Dark Sky certified					1		
ite and exterior building lighting does not cast direct beam illumination onto ent properties or right of ways					ı		
and maintain equipment for fuel conservation		J	1		L	l l	
fy solar powered pump(s) for water features					1		
ow embodied energy products	I	1	1				
of any stone and non-concrete hardscapes materials are produced within 500 of the project site					2		
grated pest management		1					
n documents include construction specifications that require integrated pest agement	100					2	
nnic pest management							
n documents include construction specifications that prohibit the use of pesticides are not allowed by Organic Materia's Research Institute in its generic materials 4 points)	Act to						2
ponts							
opropriate plants: choose & locate plants to grow to natural size and avoid shearing			1,1415				
ired: No species will require shearing	 	R					
s specified can grow to mature size within space allotted them	J	<u> </u>	<u></u>				
propriate plants: do not plant invasive species			Ţ <u>1</u>		-1		
ired: None of the species listed by Cal-IPC as invasive in the San Francisco Bay Area cluded in the planting plan	TORNAL TO	R					
rought tolerant CA native, Mediterranean or climate adapted plants			,				
ared: Specify California native, Mediterranean or other climate adapted plants that the occasional, little or no summer water for 75% of all non-turf plants				R			
V California native or Mediterracean or other climate adapted plants that require onal, little or no summer water for 100% of all non-turf plants				2			
of the non-turf plant palette need no irrigation once established (total 5 points)				3			
e t he lawn		·					
a not specified in areas less that 8 feet wide or in medians, unless imgated with face or low volume inigation	States large			2			
shall not be installed on slopes exceeding 10%				2			
ired: A maximum of 25% of total impated area is specified as turf, with sports or alle use fields exempted	a de la companya de l			R			
kimum of 15% of total landscal at area is specified as turf, with sports or multiple elds exempted				2			
arf is specified (total 5 points)				3			



	·			Í	Landscape Locally	Less to Landfill	Nurture the Soil	Conserve Water	Conserve Energy	Water and Air Quality	Create Wildlife Habitat
5. Implement hydrozoning	www.				PC	SS	3	LE	PC		
a. Group plants by water requirement appropriate for the water use with plan (with separate irrigation valve	thin each zone and ide	entify hydrozone	s on the imig	ation				2			
6. Provide shade to moderate building	g tem peratures		.'	- 4	tau in in Aprilia			1 34			
a. Protect existing trees and/or spe glazing and walls will be shaded AND trees must be deciduous	cify new trees such tha (at 4 pm in September	at 50% or more) by the trees a	of west facin t their mature	g e size					2		
7. Plant trees											
a. At least 50% of the paved site ar	rea is shaded by trees	or other vegeta	tion						2		_
b. At least one tree species is a larg	ge stature species (tota	al 2 points)							1		- 1
8. Diversify				14.114.jp	ng filika			1 1	Çiri C		
a. Landscapes less than 20,000 squa	are feet shall have a m	inimum of:									
ii. 20 distinct species OR											1
iii. 30 distinct plant species (total	3 points)										2
c. Landscapes with 20,000 to 43,56	O square feet (1 acre)	shall include a r	minimum of:			•					
ı. 30 distinct plant species OR											Ī
ii. 40 distinct species OR (total 2	poi nts)										T
iii, 50 distinct plant species (total	4 points)									1	2
d. Landscapes of greater than 1 acr AND	e shall include a minim	num of 40 distin	ct plant speci	es							
i. one additional species per acre	over Lacre OR										2
ii. two additional species per acre	over I acre (total 4 p	oints)									2
9. Choose California natives first			treptor 2	71-Vb/517- 71-728-5				3.00	Birlion		
a. CA natives are specified for 50%	of non-turf plants										2
de la companya de la	Planting		iles(H.							
F. Irrigation	30 Mer. 101 111 mer.	71003.0	· v.Biliote.	North Constant	2000-02-7-1		2.1882	STILL USANIES	0		
1. Design for on-site rainwater collection	tion, recycled water a	nd/or graywate	ruse	1		r. 18733	T			· ·	1809
a. Irrigation systems and/or all orna for recycled water where it is av	,	,	i, etc) are plu	mbed				3			
b. Design a system that can store a of the landscape irrigation requir		or graywater to	satisfy a perc	entage				,			
i. 10% OR								3			
ii. 50% OR (total 4 points)								l			
iii. 100% of dry season landscape (total 5 points)	water requirements sa	tisfied with harv	ested rainwat	ter				ŀ			



				Landscape Locally	Less to Landfill	Nurture the Soil	Conserve Water	Conserve Energy	Water and
and install high efficiency irrig	ation systems			PC	SS	ΙВ	LE	PC	1
quired: Specify weather based (audes a moisture and/or rain sen		irrigation controlle	er(s) that				R		
quired: Sprinkler and spray head	are not specified for a	reas less than 8 fe	eet wide				R		
75% or greater of non-turf irrigoperational distribution uniform							2		
100% of non-turf irrigated area rational distribution uniformity o	s: Specify and install irrigat 80% or greater, such as	tion equipment wit drip or bubblers (th an total 5 points)				3		
all turf areas: Specifiy and insta hour and an operational distrib	Lequipment with a prediction uniformity of 70%	ipitation rate of 1 or greater	inch or less				2		
gn and install irrigation system	hat will be operated at	70% of reference	ET				3		
n dedicated meter for landscape	water use or install a su	bmeter	43,43						
edicated irrigation meter or sub	ometer is specified to tra	ack irrigation water	r				2		
	g tion Subtota		prints).						
itenance	*				;				
plant debris on site		The state of the s	de Francis				· · · · · · · · · · · · · · · · · · ·		
sscycle					I	Ι	1		Ι
intenance specifications and/or in after mowing) for all lawns fi f may be excluded "in season"	am April through Octol	ber, <mark>or longer. S</mark> po			2				
duce mulch from plant debris									
intenance specifications and/or oris less than 4 inches (including mulch layer of landscaped are	cut or chipped woody	prunings) be re-in			2				
fuce compost from plant debi-					1	1	l		L
mposting plant debris on site is	included in maintenance	e specifications or	task list		3				
te plant debris for clean green	discounts		4.1		•				
ntenance specifications and/or tandor to other refuse and taken to a f.	k list require all exporte Sty where it will be use	ed plant debris be ed to produce com	separated npost or mulch		3				
soil from compaction	7 (1994) - 1994 10 (1994) - 1994				•				
itenance task list specifies that ober and April	oil is not worked when	wet, generally be	tween			ı			
oils naturally & avoid synthetic	ertilizers								
tenance manual include specific post a ten aeration and/or 1-4		with finely screen	ed quality			ı			
t and soft amendments for main naturally occuring, non-synth			ost tea or			1			
lizers prohibited by Organic M		e are prohibited ir	the project			1			
Regularly			11 41 39						
dar re. plication of organic metenan dispecifications or task	ch, to a minimum dept	h of 3 inches is inc	cluded in the			l	I		
					-	*		•	



	Landscape Locally	Less to Landfill	Nurture the Soil	Conserve Water	Conserve Energy	, o ,	Create Wildlife Habitat
	PO) S {	J. B	LE	P	t.	TS
Manage and maintain irrigation system so every drop counts a. Maintenance task list includes a schedule for reading the dedicated meter or submeter and reporting water use	<u> </u>			 		-	
b. At completion of the installation, the contractor shall provide the property owner with 1, precipitation rate for each valve zone, 2, area calculations for each imgation zone and the imgation plans which include the location of imgation supply shut off, 3, internet address for watering index information.			:	2			
c. Maintenance task list includes regular checking of imigation equipment, and/or checking soil moisture content before watering AND/OR immediate replacement of broken equipment with equal or superior materials				,			-
7. Use IPM as part of maintenance practices	14.	1		- 12 17 kings			
a. Maintenance task list includes integrated pest management specifications			l				
b. At least one landscaping staff member or contractor is trained in the use of IPM or is a Bay-Friendly Qualified Professional							
8. Choose and maintain your materials, equipment & vehicles carefully			7,	16.5			West .
a. Maintenance task list specifies that all oil leaks are repaired immediately and that repairs are not done at the landscape site	endines eldiness						
 Equipment that uses biobased lubricants and/or alternative fuels is specified in the maintenance task list 							
9. Use organic pest management							
a. Maintenance task list prohibits the use of pesticides that are not allowed by Organic Materials Research Institute in its generic materials list							2
H. Innovation 1. Bay-Friendly Landscape Guidelines and Principles are defined and referenced in the	3			* 59850 -187			
construction bid documents 2. Design & install educational signage			L.,	L PARK		:	<u></u>
a. Provide instructional signs and other educational materials to describe the landscapes Bay- Friendly design, construction and maintenance practices	4						7.
3. Create a Bay-Friendly Maintenance task list	1-]	-				
a. Provide a detailed Bay-Friendly maintenance task list and/or use the BF Maintenance Specification Guidelines as an official reference docoument in the the landscape maintenance contract and/or with on site landscape staff (total 7 points)		1	1	1	1		1
4. Employ a holistic approach		I	1				
a. Site analysis is submitted AND 65% of landscape construction waste is diverted AND planting plan includes a diverse pallette AND 50% of non-turf plants are California native species AND none of the landscape area is in turf AND compost is specified for amending the soil during installation AND natural fertilizers are specified as the exclusive source of nutrients AND integrated OR organic pest management is specified (total 7 points)				I	ı		
5. Innovation: Design your own Bay-Friendly innovation					11. 11.5		
a. Enter the description of the innovation here, and enter up to 4 points to the right. Points will be evaluated by the Bay-Friendly rater	0	0	0	0	0		0
Interaction. positive 25-55 in Summary							
Total Possible Points:	25	41	18	45	22	1	28
Total Points Achieved:		.37	0	0	Ç		0.

California Green Building Standards Code Worksheet

APPLICATION MATRIX (AM-HCD)

GREEN BUILDING MEASURE	REQUIRED	TARY
PLANNING AND DESIGN		11000
SITE DEVELOPMENT (406)		
406.2 A plan is developed and implemented to manage storm water drainage during construction	2010 CBC ¹	···i
ENERGY EFFICIENCY		
PERFORMANCE APPROACH (503)		
503.2 Minimum requirements. Low-rise residential buildings shall meet or exceed the minimum standard design required by the California Energy Standards currently in effect.	2010 CBC ¹	
PRESCRIPTIVE APPROACH (504)		
504.6 Minimum requirements Low-rise residential buildings shall meet or exceed the minimum standard design required by the California Energy Standards currently in effect.	2010 CBC ¹	
AIR SEALING PACKAGE (506)		
 506.1 Joints and openings. Joints and other openings at the following locations: 1. Exterior joints around window and door frames, including doors between the house and garage, between interior HVAC closets and unconditioned space, between attic and underfloor access, and conditioned space and between wall sole plates, floors, exterior panels and all siding material. 		
2. Openings for plumbing, electrical and gas lines in exterior walls and interior wall, ceilings and floors.	2010 CBC ¹	
3. Openings into the attic.		
4. Exhaust ducts from clothes dryers and other exhaust fans shall have a damper.5. Cuts or notches in exterior wall plates.		
506.1.1 Other openings. Whole house fan louvers shall close tightly and be insulated or covered to a minimum of R-4.2.		
WATER EFFICIENCY AND CONSERVATION		a a
INDOOR WATER USE (603)		
 603.2 Indoor water use shall be reduced by 20 percent using one of the follow methods: 1. Water saving fixtures or flow restrictors shall be used. 2. A 20 percent reduction in baseline water use shall be demonstrated. 	7/01/2011	
603.2.1 Multiple showerheads shall not exceed maximum flow rates.	7/01/2011	
MATERIAL CONSERVATION AND RESOURCE EFFICIENCY		
CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING (708)		
708.3 A minimum of 50 percent of the construction waste generated at the site is diverted to recycle or salvage.	2010 CBC ¹	
Exception: Alternate waste reduction methods are developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.		
BUILDING MAINTENANCE AND OPERATION (710)		
710.2 An operation and maintenance manual shall be provided to the building occupant or owner	2010 CBC ¹	

(continued)

APPLICATION MATRIX (AM-HCD)—continued

GREEN BUILDING MEASURE	REQUIRED	VOLUNTARY
INDOOR ENVIRONMENTAL QUALITY		
POLLUTANT CONTROL (804)		
804.3 Duct openings and other related air distribution component openings shall be covered.	2010 CBC ¹	
804.4.1 Adhesives shall be No- or Low-VOC.	2010 CBC ¹	
804.4.2 Paints, stains and other coatings shall be No- or Low-VOC.	2010 CBC ¹	
804.4.3 Carpet and carpet systems shall be Low-VOC.	2010 CBC ¹	
804.4.4 Particlels and medium density fiberboard (MDF) and plywood used in interior finish systems shall comply with the formaldehyde emission standards.	2010 CBC ¹	
INTERIOR MOISTURE CONTROL (805)		
805.2 Vapor retarder and capillary break is installed at slab on grade foundations.	2010 CBC ¹	
805.3 Moisture content of wood used in wall and floor framing is checked before enclosure.	2010 CBC ¹	
AIR QUALITY AND EXHAUST (806)		
806.3 Exhaust fan which terminate outside the building are provided in every bathroom.	2010 CBC ¹	
806.4 MERV 6. and the filters are installed on central air and heating systems.	2010 CBC ¹	

APPLICATION MATRIX (AM-DSA/SS) (RESERVED)

GRI	EN BUILDING MEASURE	REQUIRED	VOLUNTARY
PLANNING AND DUSIGN			
	(Reserved)	ABURM 14 T AVE	
ENERGY EFFICIET DY			
	(Reserved)		
WATER EFFICIENTY AND CONSERVA	TIÓN A LA L		
	(Reserved)		
MATERIAL CONSCILLATION AND RES	OURCE EFFICIENCY		
	(Reserved)		
ENVIRONMENTAL AIR QUALITY			
	(Reserved)		

State of California DEPARTMENT OF JUSTICE



Local Government Green Building Ordinances in California

In recent years, numerous local governments in California have implemented "green" building ordinances. These measures can increase energy efficiency, reduce greenhouse gas emissions, and decrease other harmful environmental impacts. This document identifies the various approaches to green building ordinances that jurisdictions have taken and the most common features of the measures.

The following cities in California have enacted mandatory Green Building Ordinances:

City	Ordinance	Effective Date	Link
Albany	Ord. 06-016	July 2007	<u>Here</u>
Brisbane	Ord. 524	January 2008	<u>Here</u>
Calabasas	Ord. 2003-185	February 2004	<u>Here</u>
Cotati	Res. PC No. 06-24	January 2008	<u>Here</u>
Culver City	Ord. No. 2008-004	March 2008	<u>Here</u>
Davis	Ord. No. 2323	August 2008	<u>Here</u>
Hayward	Ord. No. 08-20	August 2009	<u>Here</u>
Healdsburg	Ord. No. 1079	August 2009	<u>Here</u>
Livermore	Ord. No. 1804	January 2008	<u>Here</u>
Long Beach	Ord. No. 09-0013	June 2009	<u>Here</u>
Los Altos	Ord. No. 07-315	December 2007	<u>Here</u>
Los Altos Hills	Ord. No. 512	November 2008	<u>Here</u>
Los Angeles	Ord. No. 179820	May 2008	<u>Here</u>
Marin (Co.)	Ord. No. 3492	June 2008	<u>Here</u>
Mill Valley	Ord. No. 1246	December 2008	<u>Here</u>
Morgan Hill	Municipal Code Chapter 15.68	Ord. Pending	<u>Here</u>
Napa	Ord. No. O2009 3	January 2009	<u>Here</u>
Novato	Ord. No. 1503	October 2005	<u>Here</u>
Palm Desert	Ord. No. 1124	February 2007	<u>Here</u>
Palo Alto	Ord. No. 5006	July 2008	Here

Pasadena	Ord. No. 7031	May 2008	<u>Here</u>
Pleasanton	Ord. No. 1934	January 2006	<u>Here</u>
Rohnert Park	Ord. No. 782	July 2007	<u>Here</u>
San Francisco	Admin. Bulletin No. AB-093	October 2008	<u>Here</u>
San Jose	Ord. No. 28622	September 2009	<u>Here</u>
San Mateo (Co.)	Ord. No. 04411	March 2008	<u>Here</u>
San Rafael	Ord. No. 1853	August 2007	<u>Here</u>
Santa Barbara	Ord. No. 5446	March 2008	<u>Here</u>
Santa Cruz	Ord. 2005-29	January 2007	Here
Santa Monica	Ord. No. 2261	May 2008	<u>Here</u>
Santa Rosa	Ord. No. 3869	June 2008	<u>Here</u>
Sebastopol	Res. 5454	March 2005	<u>Here</u>
Sonoma	Ord. No. 03-2009	August 2009	<u>Here</u>
Tiburon	Ord. No. 512	November 2008	<u>Here</u>
Windsor	Ord No 2007-215	June 2007	<u>Here</u>
West Hollywood	Ord. No. 07-762	October 2007	<u>Here</u>

Green Rating Systems

The enactment of local green building requirements has been facilitated by the development of several independent rating systems increasingly used in the building industry to objectively evaluate "green" buildings. The most common system is Leadership in Energy and Environmental Design (LEED®), developed by the United States Green Building Council (http://www.usgbc.org). LEED has developed several rating systems with guidelines for different construction markets, including new nonresidential buildings, core and shell construction of commercial buildings, construction of commercial interiors, the construction of schools, health care facilities, and retail spaces, and a newly-developed system for homes (LEED-H), released in January of 2008. The LEED for the Neighborhood Development Rating System is in the pilot program stage and should be released in 2009.

Under the LEED rating system, the use of specific green building practices or design elements, in addition to certain prerequisite practices, accrue "points" on a checklist. Depending upon the number of points earned, each project is given a rating which corresponds to a level of LEED certification. Projects which meet the minimum number of points are "Certified." Projects which accrue more than the minimum are rated "Bronze," "Silver," "Gold," or "Platinum," according to the number of points earned. Most cities require some level LEED-equivalent performance for some types of buildings, but do not require registration with the United States Green Building Council.

Another rating system used by local governments in their green building ordinances is the "GreenPoints Rated" program first developed by a coalition of Alameda County waste agencies (http://stopwaste.org) and promoted by Build It Green, a nonprofit organization based in Berkeley, California (http://www.builditgreen.org). The GreenPoints Rated system, while similar in approach to LEED, is focused on residential development, including separate guidelines for single-family and multifamily buildings. A building must attain at least 50 "GreenPoints" to be certified as "GreenPoint Rated."

Several cities or counties have developed their own "points" systems using guidelines and checklists based on the GreenPoint Rated system. These include guidelines developed by the Sonoma County Waste Management Agency (http://www.recyclenow.org) and the City of West Hollywood (http://www.weho.org/greenbuilding/). These alternative systems award points for many of the same practices, such as the use of fly ash in concrete, the recycling of construction debris, and the installation of overhangs.

While the far majority of local ordinances require or permit the use of LEED ratings for public and commercial projects, most local ordinances rely on GreenPoints or related systems for residential construction. In 2007, Build it Green signed a Memorandum of Understanding with Davis Energy Group (www.davisenergy.com) to calibrate the LEED for Homes and GreenPoints Rated systems for use in California, allowing for cross-training of building professionals, concurrent verification, and the possibility of "dual-branded" homes meeting the requirements of both systems.

As an alternative to the approach of LEED and GreenPoints Rated, the California Building Industry Association's Building Industry Institute has developed the California Green Builder program (http://cagreenbuilder.org) to help builders and communities introduce and verify green building practices. The California Green Builder program combines prescriptive green building measures with a performance-based verification system. Unlike LEED and GreenPoints Rated, the California Green Builder protocols do not use "points," but require specific practices and third party verification of a building's actual performance. The California Green Builder program ensures that buildings exceed state energy efficiency requirements by at least 15%, while verifying practices such as duct sealing and construction waste management. As of yet, no California city has required developers to use the Green Builder Program. However, cities such as San Bernardino, Riverside, and Cathedral City have passed ordinances that provide incentives for developers who use the system.

Examples of cities' minimum LEED, GreenPoint Rated, or other point requirements for private development:

City	Nonresidential Buildings	Residential Buildings
Albany	LEED Gold if over 5000 ft. ²	50 GreenPoints for single-family
Berkeley	Energy audit required if construction totals more than \$50,000	Energy audit required if construction totals more than \$50,000
Brisbane	LEED Silver if over 10,000 ft. ²	50 GreenPoints for multifamily
Calabasas	LEED Certified if over 500 ft.2; LEED Silver if over 5000 ft.2	
Cotati	60 GreenPoints	60 GreenPoints
Chula Vista		50 GreenPoints
Livermore	LEED Certified Equivalent	50 GreenPoints

F 5	T DDD C 1.0	TEED C .:C 1:C CO.OOO
Long Beach	LEED Certified if over 50 units	LEED Certified if over 50,000 ft.2
Los Altos		50 GreenPoints
Los Angeles	LEED Certified if over 50,000 ft. ²	LEED Certified if over 50,000 ft. ² and at least 50 units.
Novato		50 GreenPoints
Palo Alto	LEED Silver if over 5,000 ft. ²	70 GreenPoints if over 1250 ft. ²
Pasadena	LEED Certified if over 25,000 ft. ² ; LEED Silver if over 50,000 ft. ²	LEED Certified if over four stories
Pleasanton	LEED Certified if over 20,000 ft. ²	
Rohnert Park	LEED Silver	90 GreenPoints
San Francisco	LEED Gold	75 GreenPoints or LEED Silver
San Rafael	LEED Certified; LEED Silver if over 30,000 ft. ²	60 GreenPoints
San Mateo (Co.)	LEED Silver if over 3,000 ft. ²	50 GreenPoints or LEED Certified
Santa Cruz		10 GreenPoints + 1.5 GreenPoints for every 100 ft.2 over 350 ft.2
San Francisco	LEED Gold (by 2012)	75 GreenPoints or LEED Silver (by 2012)
Santa Monica	7 LEED Points (all LEED prerequisites)	
Sebastopol	60 Sonoma County Points	60 Sonoma County Points
Hayward	LEED Silver if valued over \$3,000,000	50 GreenPoints if more than 20 units
Windsor	20 LEED Points	50 GreenPoints
West Hollywood	60 City Points Or LEED Certified	60 City Points or LEED Certified

Prescriptive Measures

Rating systems offer flexibility for developers, since the developer can choose which green building practices will be used to meet the requirements. However, some cities have chosen to prescribe specific green building measures in lieu of or in addition to required ratings. These requirements address the particular resource needs of a community, and include measures such as the installation of water-saving plumbing fixtures, solar panels, or the use of energy-saving EnergyStar appliances.

Some cities that require specific prescriptive measures with examples:

City	Required Measures
Cotati	Pre-plumb for solar water heating; 30% fly ash in concrete; 50% native plants in landscaping; protection for 80% drought conditions.
Chula Vista	Pre-plumb for solar water heating
Culver City	1kw of installed solar panels
Palm Desert	Fluorescent, automatic-OFF landscape and utility lighting; NEMA premium electric motors and pumps; conduit for solar
Pasadena	Meet LEED credit 3.1 (water efficiency)
Rohnert Park	Variable speed pool pumps; EnergyStar exhaust fans
Santa Barbara	Variable speed pool pumps; EnergyStar appliances; NEMA premium HVAC motors
Santa Monica	Efficient water heating; EnergyStar appliances; light sensors/dimmers
Sebastopol	Dual flush toilets; low-flow showerheads
West Hollywood	Roof capacity for solar panels; bike parking; many others.

Performance Standards

Performance standards provide a way to measure the energy efficiency of a building. Tools and guidelines for assessing the performance of buildings have been developed to implement California's energy efficient building standards, and are available from the California Energy Commission (http://www.energy.ca.gov/title24/). Both the California Green Builder program and GreenPoints Rated systems require qualifying buildings to exceed Title 24 requirements by at least 15%, and buildings using the LEED system are awarded points for exceeding Title 24 requirements by more than 15%.

As an alternative to ratings systems such as LEED, GreenPoint Rated, or California Green Builder, which grant certification for specific actions designed to conserve resources, many local governments have chosen to directly implement performance standards as alternate means of compliance or as separate requirements from green building practices. Under California Public Resources Code § 25402.2(h), such requirements, when they relate to energy efficiency, must be approved by the California Energy Commission and must be more stringent than the requirements found in Title 24, Part 6 of the California Code of Regulations. Nearly ten cities have received approval from the Energy Commission to incorporate energy efficiency performance standards into their green building ordinances separate from incorporation of GreenPoints Rated or LEED. An updated list is available here.

Cities that have adopted performance-based requirements exceeding Title 24:

City	Energy Efficiency Requirement (increase over Title 24)
Cotati	15%
Los Altos	15% for non-residential buildings

Los Altos Hills	15% for residential buildings
Palm Desert	10% for residential buildings; 15% if over 4,000 ft. ²
Rohnert Park	10-15% for residential buildings based on size
San Rafael	All homes above 3,500 ft. ² must equal Title 24 energy use of a 3,500 ft. ² home
Santa Barbara	20% for residential buildings
Santa Monica	10% exempts projects from prescriptive requirements
Santa Rosa	15% for residential buildings

Municipal Buildings

Many ordinances in California require that municipal buildings and other city-sponsored projects promote green building practices. These are often the first and most stringent green building requirements passed by a city.

Examples of cities which have higher green building requirements for public buildings than for private projects:

City	Requirement for Municipal Buildings
Albany	LEED Gold if over 5,000 ft. ²
Berkeley	LEED Silver
Brisbane	LEED Silver if over 5,000 ft. ²
Livermore	LEED Silver
Los Altos	LEED Certified if over 7,500 ft. ²
Los Angeles	LEED Certified if over 7,500 ft. ²
Pasadena	5000 ft.²; LEED Silver
Rohnert Park	LEED Silver
San Rafael	LEED Certified; LEED Silver if over 30,000 ft. ²
West Hollywood	LEED Certified
Livermore	LEED Certified

Enforcement

Cities have chosen many different mechanisms for enforcing green building requirements. Most cities require submission of completed checklists based on building plans at the permitting stage. In most cities, buildings permits are contingent upon a complete and sufficient checklist. Many cities, such as Rohnert Park, Santa Monica, and Palo Alto provide for green building verification

prior to issuing an occupancy permit. The power to restrict permits for non-compliant buildings is an important part of ensuring compliance by private developers. San Mateo County requires builders to post a bond of \$1.50 per square foot to ensure compliance with green building requirements.

In addition to enforcement through the permitting process, some local ordinances provide for penalties for violation of a green building ordinance. Ordinances can provide for infractions or injunctions for violators, or even civil penalties. Criminal and civil sanctions are an important way of insuring that green building practices are followed even after the permitting process is complete.

Cities and their methods of green building enforcement:

City	Enforcement
Berkeley	Plan check at permit stage
Brisbane	Verification prior to occupancy permit
Cotati	Plan check and project inspection
Culver City	3rd party inspection
Livermore	Verification plan submitted at permit stage; inspection prior to occupancy permit; infraction or injunction for violation; violation is also public nuisance
Long Beach	3 rd party inspection prior to occupancy permit
Los Altos	Verification prior to final inspection
Los Angeles	Plan check or LEED registration at permit stage
Novato	Plan check at permit stage
Palo Alto	Plan check and verification prior to final inspection
Rohnert Park	Plan check and verification prior to final inspection; infraction and civil penalty for violation
Pasadena	Verification at final inspection; additional inspections as needed
San Mateo (Co.)	Plan check at permit stage; bond required until 3 rd party verification
Santa Cruz	Plan check at permit stage
Santa Monica	Plan check at permit stage and final inspection
Santa Rosa	Plan check at permit stage and final inspection
Windsor	Verification plan developed at permit stage
West Hollywood	Plan check at land use and permitting stages

Livermore	Verification at permit stage	

Incentives

Many ordinances that codify mandatory green building requirements also provide incentives that encourage developers to meet or exceed the required standard. These incentives can take the form of rebates or reimbursements, or preferential treatment as expedited permit review, expedited inspections, or even permit variances such as increased floor-area-ratio (FAR) or unit density.

Examples of cities that provide incentives for green performance in addition to mandatory standards:

City	Incentives
Anaheim	Expedited permit processing and fee waivers
Costa Mesa	Expedited permit processing and fee waivers
Chula Vista	50 GreenPoints meets indoor air plan requirements; expedited permit processing
Los Angeles	Expedited permit processing for LEED Silver
Petaluma	Buildings attainting 50 GreenPoints get certificate, plaque, city recognition
San Francisco	Priority permitting for LEED Gold; FAR/height waivers for higher performance
San Rafael	Expedited permit, fee waiver, sign, plaque for 100 GreenPoints or LEED Gold
San Mateo (Co.)	Priority permitting for 75 GreenPoints or LEED Certified
Santa Monica	Permit processing for 35 GreenPoints or 33 LEED points
Marin (Co.)	Rebates for installation of home solar panels

Comprehensive Ordinances

As this document illustrates, there are a variety of approaches, methods, and measures to ensure that a city's development occurs in the most sustainable way possible. Required ratings, prescriptive measures, performance standards, powerful enforcement, and a variety of incentives can all work together to promote the effective and efficient shift to environmentally sensitive building. The most comprehensive programs combine all of these elements to establish minimum standards while encouraging innovation and voluntary commitment to green practices. Cities and counties of all sizes can take ambitious action to combat climate change. Two such comprehensive programs are compared below:

	San Francisco (proposed)	Rohnert Park
Approximate population (U.S. census estimate)	764,000 in 2007	41,083 in 2006
Residential requirement	75 GreenPoints (by 2012)	90 GreenPoints
Nonresidential requirement	LEED Gold (by 2012)	LEED Silver
Examples of prescriptive requirements	On-site space designated for compostable waste, in addition to recycling (by 2012)	Variable speed pool pumps; Energy Star exhaust fans; mastic applied to duct joints
Incentives	For "significantly" exceeding requirements: -Additional building height or FAR -Priority permitting -Equalization of green assessment evaluations, avoiding increased taxes for green features -Rebate or refunds of project fees	None
Enforcement	Plan check and verification prior to final inspection	Plan check and verification prior to final inspection; infraction and civil penalty for violation

Several organizations offer information to local governments interested in developing green building initiatives. Model ordinances and resolutions covering city buildings and encouraging green building in the private sector are available at http://www.stopwaste.org. These resolutions are common first steps to developing mandatory green building requirements. Global Green USA (http://www.globalgreen.org) offers several publications and resources for local governments, including http://www.globalgreen.org) offers several publications and resources for local governments.