



## Application

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Project Title: \_\_\_\_\_

Project Address: \_\_\_\_\_

Applicant's Name and Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Agent/Architect's Name: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

P&D Planner: \_\_\_\_\_

Description of Project: *Please circle or fill in.*

a. Residential/Nonresidential/Municipal

b. New / Addition / Alteration

c. Square Footage: \_\_\_\_\_

d. Landscape Plan Included? \_\_\_\_\_

e. Briefly Describe Scope of Work: \_\_\_\_\_

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**Percent beyond California Energy-Efficient Standards (Title 24):** \_\_\_\_\_ %

**Building's Greenhouse Gas Emission Reduction Above Baseline:** \_\_\_\_\_ lbs per year

**Energy Points Total:** \_\_\_\_\_





## Checklist




### Zero Net Energy Design

- Exceed Title 24 Standards by 15%
- Buildings shall have on-site renewable energy sufficient to achieve an Energy Design Rating of zero (0) as calculated by Title 24, Part 6 Compliance Software approved by the Energy Commission.
- Meet all CALGreen Mandatory Requirements
- Residential - 40 Points
- Nonresidential - 30 Points

### Incentives

- 50% Reduction in Energy Plan Check Fee
- Expedited Building & Safety Division Plan Check Review Process (Average 30% – 50% Time Reduction)
- Use of SB<sup>2</sup> Logo for Marketing
- Certificate for ZNE Design



Please check off and list the energy-efficient features you are incorporating in your design to reach beyond California Energy-Efficient Standards (Title 24):

Insulation for Walls, R-value: \_\_\_\_\_

Solar Water Heating: \_\_\_\_\_

Insulation for Ceiling, R-value: \_\_\_\_\_

Solar Pool Heating: \_\_\_\_\_

Window/Glazing, U-value: \_\_\_\_\_

Lighting > 90 CRI: \_\_\_\_\_

Gas Furnace, AFUE: \_\_\_\_\_

LED Landscape Lighting: \_\_\_\_\_

Air Conditioner, SEER: \_\_\_\_\_

Lighting Controls: \_\_\_\_\_

Gas Water Heater, EFR: \_\_\_\_\_

EV Charging Station: \_\_\_\_\_

Thermal Mass, Square Footage: \_\_\_\_\_

## Energy Points Menu

*The following points are for features not addressed in Title 24.*

### Energy Section

	1. Photovoltaic and Wind Generators: 2 points for each 20% of project's electrical demand provided (e.g., provides 60% of demand = 6 points).	10 points max
	2. Solar pool heating	2 points
	3. Passive Cooling Strategies: passive cooling planned for or designed into structure (e.g. strategically sized overhangs or trellis on south side, movable awnings, operable skylights, fan, thermal chimney, thermal mass, a cupola or roof opening for hot air venting, radiant barrier, or underground cooling tubes).	1 point each; 5 points max
	4. Lighting <ul style="list-style-type: none"> <li>a) Residential: Whole-home, high efficiency, lighting control system with conditional logic</li> <li>b) Residential and non-residential: The preprogrammed demand response strategies should be capable of reducing the total lighting load by a minimum 30 percent through dimming control or bi-level switching.</li> <li>c) Outdoor lighting: These systems shall be designed and installed to comply with the following: 1. The minimum requirements in the California Energy Section 150(K) Table 150.C as defined in Chapter 10 of the California Administrative Code; and 2. Backlight, Uplight and Glare (BUG) ratings as defined in IESNA TM-15-11; and 3. Allowable BUG ratings not exceeding those shown in Table 5.106.8, or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent. Exceptions: 1. Luminaires that qualify as exceptions in Section 147 of the California Energy Code 2. Emergency lighting</li> </ul>	1 point  1 point  1 point
	5. Water Heaters: located within 25 feet of main area of usage or use of hot water re-circulating system (either on demand or time and temperature controls).	1 point
	6. Appliance Efficiency: need manufacturers spec. sheets for credit. All appliances must be Energy Star rated and there is no second refrigerator. Appliances must be installed prior to occupancy.	1 point
	7. Use renewable energy sources available off site to generate energy on site (e.g., biomass, ethanol, biodiesel, etc.).	2 points
	8. Purchase off-site renewable energy sources (e.g., utility-based wind, PV, emissions credits, etc.). 1 points for each 20% of project's electrical demand provided (e.g., provides 60% of demand = 3 points).	5 points
	9. Use of air, water, and ground source heat pumps for space and water heating.	1 point
	10. Install radiant heating and cooling system in lieu of forced air with AC to reduce air borne particulates and optimize efficiency. Use HRV/ERV to supply ventilation (see Item 30.f).	1 point
	11. Utilize a solar thermal system (and have back-up system in place)	1 point
	12. Design for passive heating strategies (e.g., southern windows in conjunction w/thermal mass, different type of glazing on the south side, higher SHGC coefficient for allowing better heat gain, etc.). Specify type, location, and quantity of thermal mass.	1 point each 4 points max
	13. Windows, doors, and envelope related materials: All window and door products should require an NFRC label or equivalent third party testing. <ul style="list-style-type: none"> <li>a) U-Value <ul style="list-style-type: none"> <li>30% Baseline - High performance glazing (U-Value below .30)</li> <li>40% Baseline - High performance glazing (U-Value below .26)</li> </ul> </li> </ul>	

	<p>High performance glazing (U-Value below .24) High performance glazing (U-Value below .20)</p> <p>b) SHGC 30% Baseline - High performance glazing (SHGC below .28) 40% Baseline - High performance glazing (SHGC below .25)</p> <p>High performance glazing (SHGC below .23 ) High performance glazing (SHGC below .20)</p> <p>c) Sound Mitigation Measures: a) STC Rating Exceeding .36 b) STC Rating Exceeding .38 c) STC Rating Exceeding .40</p> <p>d) Optimizing SHGC to building orientation</p>	<p>2 Points 3 Points</p> <p>2 Points 3 Points</p> <p>1 point 2 points 3 points</p> <p>1 point</p>
	14. Design for efficient layout of electrical branch circuits and panel locations by placing a majority of branch circuits in the slab with the length from the panel to a receptacle 12 inches above the floor ( <i>may need additional plan check time</i> ).	1 point
	15. Off-Peak Energy Storage (Charge batteries 12 AM to 6 AM, discharge batteries during the daytime.	XX points
<p><b>Summer Shading and Wind Protection</b> (measures taken to increase energy efficiency)</p>		
	16. Summer Shading: substantial shading by moveable exterior awnings or trees by the west or south elevations of the building. Tree on south elevation should be deciduous. (1 point for each elevation). One additional point if done with existing trees. Plans must show existing trees.	2 points max
	17. Protection of Building from Heat Loss: a) planting a windbreak, earthen berm, or building a solid wall along the north or windward side of the building approximately 10 feet away and 2/3 of the building height. b) building fin walls on the building or planting against the building to create an air envelope around the building.	1 point  1 point
	18. Other quantifiable, site specific, energy efficient features approved by SB <sup>2</sup> committee.	10 points max
<p><b>Siting</b> (measures taken to reduce thermal breaks)</p>		
	19. New buildings: Locate building away from low spot of surrounding terrain to lower heating loads (may not apply to all projects due to topography).	1 point
	20. If not implementing passive solar design, maximize wall area and minimize window area on south and east elevations.	1 point
	21. Maximize roof orientation for future solar systems and include stub outs for future solar.	1 point

	22. New buildings: design for use of renewable energy sources available near the site (e.g., PV, solar hot water, wind, etc.).	1 point
<b>Building Materials Section</b>		
	23. Structure: a) advanced framing (24" on center), engineered wood products, engineered factory panelized built models, recycled content (50% minimum) materials (e.g. steel studs, etc.). 50% of total framing = 1 point, 60% = 2 points, 70% = 3 points, 80% plus = 4 points ( <i>may require additional plan check time</i> ) b) use of innovative structural system for 50% or more of building walls: structural insulating panels, insulating concrete forms, insulating block, straw bale, etc. 50% = 1 point, 60% = 2 points, 70% = 3 points, 80% plus = 4 points ( <i>may require additional plan check time</i> )	4 points max  4 points max
	24. Recycle Existing Buildings: 5 points for reusing 50% of existing buildings/building materials onsite (or to be used at another site). An additional point for each 10% reuse of existing building/building materials beyond the 50%.	10 points max
	25. All insulation to include entire building and be 100% recycled content, wet blown, open/closed cellulose, or cellulose with UL fire retardant, to be coordinated with attic rafter venting.	1 point
	26. Conditioned crawl spaces of a certain height (cannot be used as basement)	1 point
	27. Exterior Building Envelope: a) Tri-County local masonry materials for stone work; 75% plus. b) plaster or cementitious siding; 75% plus. c) recycled content, salvaged, or certified sustainably harvested wood; 75% plus. d) roof: recycled-content roofing material or combination cement-fiber roofing and minimum 30 year rated life on at least 50% of roof. e) roof: vegetated roof or high-emissivity roofing ( <i>may require additional plan check time</i> ). f) rain-screens	1 point 1 point 1 point 1 point 1 point 1 point
	28. Interior Materials and Finishes: a) floor: tile, ceramic tile, stone, finished concrete, cork or natural linoleum; recycled-content or natural-content carpet and pad (tacked); 75% plus.	1 point
	29. Air Barrier Envelope System: Install an high performance Weather resistive barrier, (WRB) comprised of compatible components that function as an air barrier	3 Points
	30. Indoor Environmental Quality: a) create a whole house vacuum b) use non-toxic, zero VOC paints c) reduce exterior noise/noise attenuation d) use minimum merv. 10 filters e) install electrical cooking appliances that use no combustion gases f) utilize high efficiency (90%+) HRV/ERV with minimum of MERV 8 filters to supply continuous, balanced ventilation with filtered outside air, optimizing IAQ.	1 point 1 point 1 point 1 point 1 point
	31. Other quantifiable, site specific, building material strategies approved by SB <sup>2</sup> committee.	10 points max

## ***Non-Energy Related Building Techniques***

	<p>32. Water Conservation Measures:</p> <ul style="list-style-type: none"> <li>a) landscape with drip irrigation system or equivalent using drought tolerant or native plants; 75% plus. 2 point</li> <li>b) create a plan to preserve on-site native vegetation; 75%. 2 point</li> <li>c) design a greywater system, enhanced treatment system, or shallow drip dispersal system in accordance with county regulations 2 point</li> <li>d) design a rainwater collection and reuse system 2 point</li> <li>e) install dual-flush toilets 1 point</li> <li>f) install waterless urinals 1 point</li> <li>g) Use of permeable paving; 75% plus. 2 point</li> <li>h) Reduce water usage versus baseline by 40% 2 point</li> <li>i) Install showerheads with 1.5 gallons/minute (or less) 1 point</li> <li>j) Water metering 2 points</li> </ul>	
	33. Implement a construction waste management plan to reuse and minimize material waste that exceeds CALGreen requirements. (Applicant can obtain a form from SB <sup>2</sup> Administrator)	1 point
	34. Compact Design	5 points
<b><i>Commercial Specific</i></b>		
	35. Commercial/industrial developments that include the following facilities to reduce vehicular trips during the work day: cafeterias (1 points), postal machines (1 point), automated bank tellers (1 point), child care facilities (2 points), delivery services for employees (1 point), provide employee showers (1 point), provide company electric vehicles (1 point) and charge stations (1 point), provide company bikes (1 point), provide indoor employee bike racks (1 point), gym (1 point).	11 points max
	36. Education of the Tenant and Building Manager of Energy and Water utilization/conservation.	5 points
<b>Energy Point Total</b>		<b>Points</b> <input style="width: 50px; height: 20px; border: 1px solid black;" type="text"/>