



# CLIMATE ACTION PLAN CONSISTENCY CHECKLIST B-50

## PURPOSE

This checklist is intended to assist building permit applicants identify which Climate Action Plan (CAP) ordinance requirements apply to their projects. The completed checklist must be included in the building permit application. It may be necessary to supplement the completed checklist with supporting materials, calculations or certifications, to demonstrate full compliance with CAP ordinance requirements. For example, projects that propose or require a performance approach to comply with energy-related measures will need to attach to this checklist separate calculations and documentation as specified by the ordinances.

NOTE: The following type of permits are not required to fill out this form

❖ Patio	❖ Decks	❖ PME (w/o panel upgrade)	❖ Pool
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- ▲ If an item in the checklist is deemed to be not applicable to a project, or is less than the minimum required by ordinance, an explanation must be provided to the satisfaction of the Building Official.
- ▲ Details on CAP ordinance requirements are available on the city's [website](#).
- ▲ A CAP Building Plan template (form B-55) shall be added to the title page all building plans. This template shall be completed to demonstrate project compliance with the CAP ordinances. Refer to the building application [webpage](#) and download the latest form.

### Application Information

Project Name/Building Permit No.: \_\_\_\_\_ BP No.: \_\_\_\_\_

Property Address/APN: \_\_\_\_\_

Applicant Name/Co.: \_\_\_\_\_

Applicant Address: \_\_\_\_\_

Contact Phone: \_\_\_\_\_ Contact Email: \_\_\_\_\_

Contact information of person completing this checklist (if different than above):

Name: \_\_\_\_\_ Contact Phone: \_\_\_\_\_

Company name/address: \_\_\_\_\_ Contact Email: \_\_\_\_\_

Applicant Signature: \_\_\_\_\_ Date: \_\_\_\_\_

# City of Carlsbad Climate Action Plan Consistency Checklist

Use the table below to determine which sections of the Ordinance Compliance checklist are applicable to your project. For alterations and additions to existing buildings, **attach Building Permit Valuation worksheet.**

Building Permit Valuation (BPV) **from worksheet:** \$ \_\_\_\_\_

Construction Type	Complete Section(s)		Notes:
<input type="checkbox"/> Residential	Low-rise	High-rise	A high-rise residential building is 4 or more stories, including a mixed-use building in which at least 20% of its conditioned floor area is residential use
<input type="checkbox"/> New construction	2A, 3A, 4A	1B, 2B, 3B, 4A	
<input type="checkbox"/> Additions and alterations:			
<input type="checkbox"/> BPV < \$60,000	N/A	N/A	All residential additions and alterations
<input type="checkbox"/> BPV ≥ \$60,000	1A, 4A	4A	1-2 family dwellings and townhouses with attached garages only
<input type="checkbox"/> Electrical service panel upgrade only			
<input type="checkbox"/> BPV ≥ \$200,000	1A, 4A*	1B, 4A*	*Multi-family dwellings only where interior finishes are removed and significant site work and upgrades to structural and mechanical, electrical, and/or plumbing systems are proposed
<input type="checkbox"/> Nonresidential			
<input type="checkbox"/> New construction	1B, 2B, 3B, 4B and 5		
<input type="checkbox"/> Alterations:			
<input type="checkbox"/> BPV ≥ \$200,000 or additions ≥ 1,000 square feet	1B, 5		
<input type="checkbox"/> BPV ≥ \$1,000,000	1B, 2B, 5		Building alterations of ≥ 75% existing gross floor area
<input type="checkbox"/> ≥ 2,000 sq. ft. new roof addition	2B, 5		1B also applies if BPV ≥ \$200,000

## CAP Ordinance Compliance

### Checklist Item

Check the appropriate boxes, explain all not applicable and exception items, and provide supporting calculations and documentation as necessary.

### 1. Energy Efficiency

Please refer to Carlsbad Municipal Code (CMC) sections 18.21.155 and 18.30.190, and the California Green Building Standards Code (CALGreen) for more information when completing this section.

- A.  Residential addition or alteration ≥ \$60,000 building permit valuation. See CMC section 18.30.190.  N/A \_\_\_\_\_  
 Exception: Home energy score ≥ 7 (attach certification)

Year Built	Single-family Requirements	Multi-family Requirements
<input type="checkbox"/> Before 1978	Select one: <input type="checkbox"/> Duct sealing <input type="checkbox"/> Attic insulation <input type="checkbox"/> Cool roof	<input type="checkbox"/> Attic insulation
<input type="checkbox"/> 1978 and later	Select one: <input type="checkbox"/> Lighting package <input type="checkbox"/> Water heating Package	
<input type="checkbox"/> Between 1978 and 1991		Select one: <input type="checkbox"/> Duct sealing <input type="checkbox"/> Attic insulation <input type="checkbox"/> Cool roof
<input type="checkbox"/> 1992 and later		Select one: <input type="checkbox"/> Lighting package <input type="checkbox"/> Water heating package

- B.  Nonresidential\* new construction or alterations ≥ \$200,000 building permit valuation, or additions ≥ 1,000 square feet.  N/A \_\_\_\_\_

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**See CMC 18.21.155 and CALGreen Appendix A5, Division A5.2 – Energy Efficiency.**

A5.203.1.1 Choose one:  .1 Outdoor lighting  .2 Warehouse dock seal doors  
 .3 Restaurant service water heating (comply with California Energy Code section 140.5, as amended)  N/A \_\_\_\_\_  
 .4 Daylight design PAFs  .5 Exhaust air heat recovery

A5.203.1.2.1  
 Choose one as applicable:  .95 Energy budget  .90 Energy budget  N/A \_\_\_\_\_

A5.211.1\*\*  
 On-site renewable energy  N/A \_\_\_\_\_

A5.211.3\*\*  
 Green power (if offered by local utility provider, 50% minimum renewable sources)  N/A \_\_\_\_\_

A5.212.1  
 Elevators and escalators  N/A \_\_\_\_\_

A5.213.1  
 Steel framing  N/A \_\_\_\_\_

\* Includes hotels/motels and high-rise residential buildings

\*\* For alterations ≥ \$1,000,000 BPV and affecting > 75% existing gross floor area, or alterations that add 2,000 square feet of new roof addition: comply with CMC 18.30.130 instead.

## 2. Photovoltaic Systems

**A.  Residential new construction (for low-rise residential building permit applications submitted after 1/1/20). Refer to 2019 California Energy Code section 150.1(c)14 for requirements. Notes: 1) High-rise residential buildings are subject to nonresidential photovoltaic requirement (2B below) instead. 2) If project includes installation of an electric heat pump water heater pursuant to CMC 18.30.150(B) (high-rise residential) or 18.30.170(B) (low-rise residential), increase system size by .3kWdc if PV offset option is selected.**

Floor Plan ID (use additional sheets if necessary)	CFA	#d.u.	Calculated kWdc*	Exception
				<input type="checkbox"/> _____
				<input type="checkbox"/> _____
				<input type="checkbox"/> _____
				<input type="checkbox"/> _____
Total System Size:			_____ kWdc	

$$\text{kWdc} = (\text{CFA} \times .572) / 1,000 + (1.15 \times \text{\#d.u.})$$

\*Formula calculation where CFA = conditional floor area, #du = number of dwellings per plan type  
 If proposed system size is less than calculated size, please explain.

**B.  Nonresidential new construction or alterations ≥\$1,000,000 BPV and affecting ≥75% existing floor area, or addition that increases roof area by ≥2,000 square feet. Please refer to CMC section 18.30.130 when completing this section. Note: This section also applies to high-rise residential and hotel/motel buildings.**

Choose one of the following methods:

**Gross Floor Area (GFA) Method**

GFA: \_\_\_\_\_ Min. System Size: \_\_\_\_\_ kWdc

If < 10,000s.f. Enter: 5 kWdc

If ≥ 10,000s.f. calculate: 15 kWdc x (GFA/10,000) \*\*

\*\*Round building size factor to nearest tenth, and round system size to nearest whole number.

**Time- Dependent Valuation Method**

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Annual TDV Energy use:\*\*\* \_\_\_\_\_ x .80= Min. system size: \_\_\_\_\_ kWdc

\*\*\*Attach calculation documentation using modeling software approved by the California Energy Commission.

## 3. Water Heating

### A. Residential and hotel/motel new construction

Please refer to CMC sections 18.30.150 and 18.30.170 when completing this section.

For systems serving **individual dwelling units** choose one:

Heat pump water heater AND Compact hot water distribution AND Drain water heat recovery (low-rise residential only)

Heat pump water heater AND PV system .3 kWdc larger than required in CMC section 18.30.130 (high rise residential hotel/motel) or CA Energy Code section 150.1(c) 14 (low-rise residential)

Heat pump water heater meeting NEEA Advanced Water Heating Specification Tier 3 or higher

Solar water heating system that is either .60 solar savings fraction or 40 s.f. solar collectors

Exception: \_\_\_\_\_

For systems serving **multiple dwelling** units, install a central water-heating system with all of the following:

Gas or propane water heating system

Recirculation system per CMC 18.30.150(B) (high-rise residential, hotel/motel) or CMC 18.30.170(B) (low-rise residential)

Solar water heating system that is either:

.20 solar savings fraction

.15 solar savings fraction, plus drain water heat recovery

Exception: \_\_\_\_\_

### B. Nonresidential new construction

Please refer to Carlsbad Ordinance CMC section 18.30.150 when completing this section.

Water heating system derives at least 40% of its energy from one of the following (attach documentation):

Solar-thermal

Photovoltaics

Recovered energy

Water heating system is (choose one):

Heat pump water heater

Electric resistance water heater(s)

Solar water heating system with .40 solar savings fraction

Exception: \_\_\_\_\_

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## 4. Electric Vehicle Charging

### A. Residential New construction and major alterations\*

Please refer to Carlsbad Ordinance CMC section 18.21.140 when completing this section.

One and two-family residential dwelling or townhouse with attached garage:

One EVSE Ready parking space required

Exception : \_\_\_\_\_

Multi-family residential:

Exception : \_\_\_\_\_

Total Parking Spaces Proposed	EVSE Spaces			
	Capable	Ready	Installed	Total

Calculations: Total EVSE spaces = .10 x Total parking (rounded up to nearest whole number)

EVSE Installed = Total EVSE Spaces x .50 (rounded up to nearest whole number)

EVSE other= Total EVSE spaces – EVSE Installed

(EVSE other may be "Capable," "Ready" or "Installed.")

\*Major alterations are: (1) for one and two-family dwellings and townhouses with attached garages, alterations have a building permit valuation ≥ \$60,000 or include an electrical service panel upgrade; (2) for multifamily dwellings (three units or more without attached garages), alterations have a building permit valuation ≥ \$200,000, interior finishes are removed and significant site work and upgrades to structural and mechanical, electrical, and/or plumbing systems are proposed.

### B. Nonresidential new construction (includes hotels/motels)

Exception : \_\_\_\_\_

Total Parking Spaces Proposed	EVSE Spaces			
	Capable	Ready	Installed	Total

Calculation: Refer to the table below:

Total Number of Parking Spaces provided	Number of required EV Spaces	Number of required EVSE Installed Spaces
<input type="checkbox"/> 0-9	1	1
<input type="checkbox"/> 10-25	2	1
<input type="checkbox"/> 26-50	4	2
<input type="checkbox"/> 51-75	6	3
<input type="checkbox"/> 76-100	9	5
<input type="checkbox"/> 101-150	12	6
<input type="checkbox"/> 151-200	17	9
<input type="checkbox"/> 201 and over	10 percent of total	50 percent of Required EV Spaces

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## 5. Transportation Demand Management (TDM): Nonresidential ONLY

An approved Transportation Demand Management (TDM) Plan is required for all nonresidential projects that meet a threshold of employee-generated ADT. City staff will use the table below based on your submitted plans to determine whether or not your permit requires a TDM plan. If TDM is applicable to your permit, staff will contact the applicant to develop a site-specific TDM plan based on the permit details.

<b>Employee ADT Estimation for Various Commercial Uses</b>		
<b>Use</b>	<b>Emp ADT for first 1,000 s.f.</b>	<b>Emp ADT/ 1000 s.f.<sup>1</sup></b>
Office (all) <sup>2</sup>	20	13
Restaurant	11	11
Retail <sup>3</sup>	8	4.5
Industrial	4	3.5
Manufacturing	4	3
Warehousing	4	1

<sup>1</sup> Unless otherwise noted, rates estimated from *ITE Trip Generation Manual, 10<sup>th</sup> Edition*

<sup>2</sup> For all office uses, use SANDAG rate of 20 ADT/1,000 sf to calculate employee ADT

<sup>3</sup> Retail uses include shopping center, variety store, supermarket, gyms, pharmacy, etc.

**Other commercial uses may be subject to special consideration**

**Sample calculations:**

Office: 20,450 sf  
 1.  $20,450 \text{ sf} / 1000 \times 20 = \mathbf{409 \text{ Employee ADT}}$

Retail: 9,334 sf  
 1. First 1,000 sf = 8 ADT  
 2.  $9,334 \text{ sf} - 1,000 \text{ sf} = 8,334 \text{ sf}$   
 3.  $(8,334 \text{ sf} / 1,000 \times 4.5) + 8 = \mathbf{46 \text{ Employee ADT}}$

Acknowledgment:

I acknowledge that the plans submitted may be subject to the City of Carlsbad's Transportation Demand Management Ordinance. I agree to be contacted should my permit require a TDM plan and understand that an approved TDM plan is a condition of permit issuance.

Applicant Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**Person other than Applicant to be contacted for TDM compliance (if applicable):**

Name (Printed): \_\_\_\_\_

Phone Number: \_\_\_\_\_

Email Address: \_\_\_\_\_