City of Carlsbad

CLIMATE ACTION PLAN CONSISTENCY CHECKLIST B-50

Development Services

Building Division

1635 Faraday Avenue 442-339-2719

www.carlsbadca.gov

PURPOSE

This checklist is intended to help building permit applicants identify which Climate Action Plan (CAP) ordinance requirements apply to their project. This completed checklist (B-50) and summary (B-55) must be included with the building permit application. The Carlsbad Municipal Code (CMC) can be referenced during completion of this document.

NOTE: The following typ	e of permits are not requir	ed to fill out this form	
Patio	Decks	PME (w/o panel upgrade)	❖ Pool

The B-50 checklist was originally developed several years ago to support implementation of the CAP. Recent updates to the California Building Standards Code have imposed newer performance standards on building permit applications. Therefore, the applicant is advised to review all applicable code sections and apply the maximum performance standard, which may exceed the CAP consistency checklist requirements

Consultation with a certified Energy Consultant is encouraged to assist in filling out this document. Appropriate certification includes, but is not limited to: Licensed, practicing Architect, Engineer, or Contractor familiar with Energy compliance, IECC/HERS Compliance Specialist, ICC G8 Energy Code Specialist, RESNET HERS rater certified, certified ICC Residential Energy Inspector/Plans Examiner, ICC Commercial Energy Inspector and/or Plans Examiner, ICC CALgreen Inspector/Plans Examiner, or Green Building Residential Plan Examiner.

If an item in the checklist is deemed to be not applicable to a project, or is less than the minimum required by ordinance, check N/A and provide an explanation or code section describing the exception.

The project plans must show all details as stated in the applicable Carlsbad Municipal Code (CMC) and/or Energy Code and Green Code sections.

Application I	nformation		
Project Name/Building Permit No.:		BP No.:	Date:
Property Address/APN:			
Applicant Name/Co.:			
Applicant Address:			
Contact Phone:	Contact Email:		
Contact information of person completing this checklist (if different than ab	ove):		
Name:	Contact Phone:		
Company name/address:	Contact Email:		

Use the table below to determine which sections of the Ordinance checklist are applicable to your project. For alterations and additions to existing buildings, attach a Permit Valuation breakdown on a separate sheet. For purposes of determining valuation, the amount should be upon either the actual contract price for the work to be permitted or shall be determined with the use of the current "ICC Building Valuation Data" as published by the International Code Council, whichever is higher (refer to Section 18.04.035 of the CMC).

Building Permit Valuation (BPV) \$ breakdown_____

Construction Type	Complete Section(s)	Notes:
Residential		
□ New construction	2A*, 3A*, 4A*	*Includes detached, newly constructed ADU
☐ Additions and alterations:		
□ BPV < \$60,000	N/A	All residential additions and alterations
□ BPV ≥ \$60,000□ Electrical service panel upgrade only	1A, 4A	1-2 family dwellings and townhouses with attached garages only.
□ BPV ≥ \$200,000	1A, 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
BPV ≥ \$1,000,000	2B*	*Multi-family dwellings only where ≥\$1,000,000 BPV AND affecting ≥75% existing floor area
Nonresidential and hotels/motels		
□ New construction	1B, 2B, 3B, 4B and 5	
☐ Alterations:		
 □ BPV ≥ \$200,000 or additions ≥ 1,000 square feet 	1B, 5	
□ BPV ≥ \$1,000,000	1B, 2B, 5	Building alterations of ≥ 75% existing gross floor area
≥ 2,000 sq. ft. new roof addition	2B, 5	1B also applies if BPV ≥ \$200,000

Instructions:

- 1. Choose first between residential or non-residential based on the type of project being submitted.
- Next chose between new construction or addition/alteration for residential or non-residential.
- 3. The columns to the right of your selection will determine which sections of the CAP program are applicable to your project.
- 4. Appropriate details must be included on the plans for selections made.

EXAMPLE:

Scope of work includes a new, 2 story, single family residential structure.

The selections would be: Residential and New construction in the table above. For a 2-story structure, CAP sections 2A, 3A and 4A would be applicable. (Solar PV, water heating, EV charging) The * indicates that new detached ADU's are included.

EXAMPLE:

Scope of work includes a tenant improvement (i.e., alterations) valued at over one million dollars.

The selections would be: Non-residential and Alteration BPV \geq \$1,000,000. CAP sections 1B, 2B and 5 would be applicable to this project. (Energy efficiency, Solar PV and Transportation Demand Management (TDM)*)

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.

	CAP Ordinance Con	npliance
Checklist Item Check the appropriate by	poxes, explain all not applicable and exception items, and pro	vide supporting calculations and documentation as necessary.
1. Energy Efficiency		,
details and notes must b	8.30.060 of the Carlsbad Municipal Code (CMC) and Sec e placed on the plans according to selections chosen in t	he design.
	tial addition or alteration ≥ \$60,000 building permit va of selection chosen below must be placed on the plan	
	ing CMC 18.30.060.	□ Exception: Home energy score ≥7 (attach certification)
Year Built	Single-family Requirements	Multi-family Requirements
☐ Before 1978	Select one option: □ Duct sealing □ Attic insulation □ Cool roof	☐ Atticinsulation
☐ 1978 and later	Select one option:	
□ Dahusan1070 1001	☐ Lighting package ☐ Water heating package	Select one option:
☐ Between1978 -1991		□ Duct sealing □ Attic insulation □ Cool roof
☐ 1992 and later		Select one option:
- 1002 drid later		☐ Lighting package ☐ Water- heating package
\$200,00	nresidential construction (including additions over 1, 0 building permit valuation. See Section 18.21.050 of sure from each applicable building component required.	,000sf), new hotel/motel construction AND alterations ≥ the CMC and CALGreen Appendix A5.
A5.203.1.1 Choose on		
•	ghting Restaurant service water heating (Section 140	•
⊔ vvarenous	e dock seal doors Daylight design PAFs Exhau	•
		□ N/A
A5.203.1.2.1 Choose of	one: ☐ .95 Energy budget (Projects with indoor lighting OR mechanical) ☐ .90 Energy budget	
	(Projects with indoor lighting AND mechanical)	□ N/A
A5.211.1** □ On-site rer	newable energy:	
		□ N/A
A5.211.3** □ Green power	er: (If offered by local utility provider, 50% minimum renewa	ble sources)
A5.212.1 □ Elevators an	d escalators:(Project with more than one elevator or two escalators)	□ N/A
A5.213.1 □ Steel fram	ing: (Provide details on plans for options 1-4 chosen)	□ N/A

^{*} High-rise residential buildings are 4 or more stories.

** For alterations≥ \$1,000,000BPV and affecting> 75%existing gross floor area, OR alterations that add 2,000 square feet of new roof addition: comply with Section 18.030.040 of the CMC (section 2B below) instead.

2. Photovoltaic System	ns			
170.2(d) of th	e CEC for multi-fam ant to CAP section :	ily requirements. If	project includes installat	le-family requirements and Section ion of an electric heat pump water system size by .3kWdc if PV offset
Floor Plan ID (use additional sheets if necessary)	CFA or SARA	#d.u.	Calculated kWdc*	Exception
	1	Total System Size:	kWdc	
kWdc = (CFAx.572) / 1,000	0 + (1.15 x #d.u.)			
*Formula calculation where CFA If proposed system size is I				
affecting ≥75	% existing floor are	a, OR addition that		hese projects ≥\$1,000,000 BPV AND 2,000 square feet. Please refer to
Choose one of the fo	ollowing methods	: (Gross floor area	a or Time-Dependent \	/aluation method)
☐ Gross Floor A	rea (GFA)Method			
GFA:		Min.Syster	n Size: kWd	
□ If < 10,00	0s.f. Enter: 5 kWdc			
□ If ≥ 10,00	00s.f. calculate: 15	kWdc x (GFA/10,0	000) **	
**Round b	uilding size factor	to nearest tenth,	, and round system siz	e to nearest whole number.
☐ Time- Depende	ent Valuation Met	hod		
Annual TDV	Energy use:***	3. x	30= Min. system size:	_kWdc
***Attach c	alculation docume	ntation using mod	eling software approved	by the California Energy Commission.
140.10(a) to h residential, ho	ave a PV system sh tel/motel and multifar	all also have a batt mily additions, alterat	ery storage system meeti ions or repairs that trigger s	gs that are required by CEC section ng CEC section 140.10(b). Non olar due to the Carlsbad Climate Action y CEC section 140.10(a) and/or 170.2(g).

3. \	/ater Heating	
A.	Residential. Refer to Section 18.30.050 of the CMC and Sections 150.1(c)8 or 170.2(d) of the CEC when completing this section. Provide complete details on the plans.	
	Residential new construction and alterations:	
	□ Required: 60% of energy needed for service water heating from on-site solar or recovered energy.	
	For systems serving individual units, choose one system:	
	☐ Single 240-volt heat pump water heater AND compact hot water distribution AND Drain water heat recovery (low-rise residential only)	
	☐ Single 240-volt heat pump water heater AND PV system .3 kWdc larger than required.	
	 ☐ 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 	
	☐ Gas or propane system with a solar water hearing system and recirculation system.	
	For systems serving multiple units, choose one system:	
	☐ Heat pump water heating system with recirculation loop tank and electric backup.	
	□ Solar water heating system that is either:	
	\square .20 solar savings fraction \square .15 solar savings fraction, plus drain water heat recover	
	OR:	
	☐ System meets performance compliance requirements of section 150.1(d) or 170.2(d) and deriving at least 60% of energy fro on-site solar or recovered energy.	m
	☐ Exception:	
B.	Nonresidential and hotel/motel new construction. This section also applies to high-rise residential. Refer to Sections 18.030.020 and 18.040.030 of the CMC and Sections 140.5 and 170.2 of the CEC when completing this section. Provide complete details on the plans.)
	1. Non-residential:	
	☐ Required: Water heating system derives at least 40% of its energy from one of the following:	
	□ Solar-thermal □ Photovoltaics □ Recovered energy	
	☐ Required: High-capacity service water heating system	
	2. Water heating system is (choose one):	
	☐ Heat pump water heater	
	☐ Electric resistance water heater(s)	
	□ Solar water heating system with .40 solar savings fraction	
	3. Hotel/motel:	
	☐ Required: High-capacity service water heating system (meeting Section 170.2(d) of the CEC)	

Required: Located in garage or conditioned space

Exception:

			tions.* This section also GBSC when completin			ects. Refer to Section
Choose one:			-			
☐ One and two-family resident	tial dwelling alterat	tions with atta	ached private garage. (no	ot required	d if a panel upgrade	e would be needed)
\square New detached ADU. (no EV	space required w	hen no addit	ional parking facilities are	e added)		
$\hfill\square$ New one and two-family reside	ential dwellings and	townhouse w	rith attached private garag	ge.		
□ One EV Ready park	ing space required			□ Exce	ption:	
☐ New and major alterations to mu	ulti-family and hotel	/motel project	s: Exception:			
otal Parking Spaces Proposed			EVSE	Spaces		
	EV Capable (10%	of total)	EV Ready (25% of T	otal)	EV charge	ers (5% of Total)
or multifamily dwellings (three uni	ts or more without a					
or multifamily dwellings (three unived a nd significant site work a nd Non-Residential - Ne Please refer to Section 18.2	ts or more without a lupgrades to struc	etural and me	echanical, e lectrical, a nd	l/or p lumb	ping systems are p	
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Non-Residential - Ne Please refer to Section 18.2 Total Parking Spaces Proposed Calculation: Refer to the tab Total Number of Parking S 0-9 10-25 26-50 51-75	ts or more without a lupgrades to structed by construction 1.040 of the CM EV Capable le below:	on C when com	Exception Except	on:	oing systems are p	EV Space (optional ed EVCS (Installed with EVS 1 1 2 3
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EVSE Installed = Total EVSE Spaces x .25 (rounded up to nearest whole number)

EVSE other may be "EV Ready" or "EV Space"

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 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.

Employee ADT Estimation for various Commercial Uses			
	Emp ADT for	Emp ADT/	

Use	Emp ADT for first 1,000 s.f.	Emp ADT/ 1000 s.f. ₁
Office (all) ₂	20	13
Restaurant	11	11
Retail ₃	8	4.5
Industrial	4	3.5
Manufacturing	4	3
Warehousing	4	1

- ¹ Unless otherwise noted, rates estimated from *ITE Trip Generation Manual*, 10th Edition
- $_{2}$ For all office uses, use SANDAG rate of 20 ADT/1,000 sf to calculate employee ADT
- ³ 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. $20,450 \text{ sf} / 1000 \times 20 = 409 \text{ Employee ADT}$

Retail: 9,334 sf

- 1. First 1,000 sf = 8 ADT
- 2.9,334 sf 1,000 sf = 8,334 sf
- 3. (8,334 sf / 1,000 x 4.5) + 8 = 46 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:	
Namo	
Name:	
Date:	
Phone No ·	



CAP Building Plan Template B-55

Development Services

Building Division 1635 Faraday Avenue 760-602-2719 www.carlsbadca.gov

CLIMATE ACTION PLAN (CAP) COMPLIANCE

The following summarizes project compliance with the applicable Climate Action Plan ordinances of the Carlsbad Municipal Code and California Green Building Standards Code (CALGreen), current version. The following certificate shall be included on the plans for all building permits that are required to comply with the CAP measures:

1.	ENERGY EFFICIENCY APPLICABLE:	YES	NO
	Complies with CMC 18.30.06	0	
	or 18.21.050		Yes N/A
	Existing Structure, year built:		
	Prepared Energy Audit? Energy Score:		YesNo
	Efficiency Measures included	l in scope:	=
		_	
		_	
		_	
2.	PHOTOVOLTAIC SYSTEM APPLICA	BLE: YE	s No
	Complies with CMC section 18	3.30.040 and	2022 California Energy
	Code section 150.1(c)14		Yes N/A
	Size of PV system (kWdc):		
	Sizing PV by load calculations	Ye	No No
	If by Load Calculations:		
	Total calculated ele	ctrical load:	
	80% of load:		Vac Na
	Exception Requested Exception Approved		Yes No
	2.0000000000000000000000000000000000000		
3.	ALTERNATIVE WATER HEATING S	YSTEM APPLI	CABLE: YES NO
	Complies with CMC sections 1	.8.30.020	
	18.20.030 and/or 18.30.050?		Yes N/A
	Alternative Source:		
	□ Passive Solar		
	Exception Requested		Yes No
	Exception Approved		Yes No
4.			
	ELECTRIC VEHICLE (EV) CHARGING	G APPLICABLE	:: YES NO
		G APPLICABLE	E: YES NO
	Complies with CMC section 18.21.030?	G APPLICABLE	Yes NO
	Complies with CMC		Yes N/A Yes No
	Complies with CMC section 18.21.030?	Required Pro	Yes N/A Yes No
	Complies with CMC section 18.21.030? Panel Upgrade? Total EV Parking Spaces:		Yes N/A Yes No
	Complies with CMC section 18.21.030? Panel Upgrade? Total EV Parking Spaces: No. of EV Capable Spaces:		Yes N/A Yes No
	Complies with CMC section 18.21.030? Panel Upgrade? Total EV Parking Spaces: No. of EV Capable Spaces: No. of EV Ready Spaces:		Yes N/A Yes No
	Complies with CMC section 18.21.030? Panel Upgrade? Total EV Parking Spaces: No. of EV Capable Spaces:		Yes N/A Yes No
	Complies with CMC section 18.21.030? Panel Upgrade? Total EV Parking Spaces: No. of EV Capable Spaces: No. of EV Ready Spaces: No. of EV Installed Spaces:	Required Pro	Yes N/A Yes No Divided Is No
5.	Complies with CMC section 18.21.030? Panel Upgrade? Total EV Parking Spaces: No. of EV Capable Spaces: No. of EV Ready Spaces: No. of EV Installed Spaces: Hardship Requested	Required Pro	Yes N/A Yes No ovided Is No No No
5.	Complies with CMC section 18.21.030? Panel Upgrade? Total EV Parking Spaces: No. of EV Capable Spaces: No. of EV Ready Spaces: No. of EV Installed Spaces: Hardship Requested Hardship Approved	Required Pro	Yes N/A Yes No ovided Is No No No