

CITY OF MERCED

PROGRAMMATIC CLIMATE ACTION PLAN FOCUS GROUP

SEPTEMBER 10, 2015 BILL KING, PRINCIPAL PLANNER, CITY OF MERCED JENNIFER VENEMA, MICHAEL BAKER INTERNATIONAL (formerly PMC)







- Welcome and introductions
- Project update
- PCAP project summary
- Draft PCAP
- Other CAP implementation tools (Project Options Checklists, UDM, monitoring tool, Zoning Code Index)
- Next tasks and schedule



PROJECT UPDATE



Anticipated Timeline





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- Reviewed Project Options Checklists and monitoring tool
- Provided an update on the Unified Design Manual



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Last Meeting

Focus Group input

- Expand diversity of options in Project Options Checklists
- Challenge of mitigating GHG emissions associated with adopted growth forecasts
- Expectations for data and analysis in the PCAP





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 Since the previous meeting, the team has completed drafts of all four project components





Updates to Project Options Checklists

- Project Options Checklists previously provided eight options (four residential, four nonresidential)
 - Apply to new development
 - Show how projects can comply with the CAP
- Team updated checklists based on Focus Group input
 - Now provide 12 total options
 - Include strategies for passive design and water conservation



New Project Options

	Options	
Design Elements for New Residential Projects	5	6
Construct buildings to CALGreen Tier 1		~
Install an on-site solar photovoltaic system (2 kW)	\checkmark	
Reduce vehicle trips 25% below average	\checkmark	
Reduce vehicle trips 28% below average		~
Use passive solar design techniques	\checkmark	
Use trees to shade building	\checkmark	
Be located in a mixed-use building		~
Use an NEV for trips when feasible		~
Install a greywater system		~



New Project Options

	Options	
Design Elements for New Nonresidential Projects		6
Construct buildings to CALGreen Tier 1	\checkmark	
Be located in an area of moderate road connectivity		✓
Reduce vehicle trips 12% below average		✓
Reduce vehicle trips 20% below average	\checkmark	
Use passive solar design techniques		✓
Use trees to shade building	\checkmark	
Be located in a mixed-use building		\checkmark
Use smart irrigation and controllers		\checkmark
Install water-saving fixtures that exceed state standards		\checkmark
Provide an EV charging station	✓	



8/19 Planning Commission Discussion

- How is the PCAP positioned to dial back requests of new development if the state out-performs expectations?
 - 1. The PCAP accounts not just for current state actions but also <u>anticipated</u> state actions
 - 2. Additional state action and pending legislation are focused on <u>post-2020</u> targets, whereas the primary focus of the PCAP is 2020
 - 3. The PCAP provides a dynamic monitoring program, including 1) an annual report, 2) tools to re-evaluate reductions, and 3) recommendation to re-evaluate post-2020 targets by 2018 (following state action)



PCAP PROJECT SUMMARY



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What is the PCAP project?

- Provides a stand-alone implementation plan for the CAP (the PCAP)
- Documents consistency with CEQA criteria for project streamlining
- Provides implementation tools





What are the benefits of CAP tools?

- The tools
 - PCAP
 - Project Options Checklists
 - UDM
 - Monitoring tool
- The benefits
 - Guidance
 - Information
 - Clarify implementation processes





DRAFT PCAP



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What is the PCAP document?

 The City's local, customized strategy to achieve the adopted CAP target in a manner consistent with state guidance





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Key Parts of the PCAP

- 1. Summary of plan development
- 2. Technical and regulatory context
- 3. Strategies to achieve the GHG reduction target
- 4. Work plan for City staff
- 5. Project Options Checklist



Streamlines permit approval and reduces regulatory barriers



Conserves water, clean air, and other resources



Helps ensure a healthy living and working environment



Takes advantage of clean energy opportunities



Saves money for residents and businesses



PCAP Approach to Balance Priorities

 Council direction is to meet the minimum elements of a qualified CAP for CEQA streamlining



Technical Data and Assumptions

 PCAP documents technical evidence for CEQA consistency

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- Assumes adopted growth forecasts
- Analyzes state credits based on existing <u>and</u> anticipated regulations and programs
- Quantification for measures uses peer-reviewed reports, case studies, and reasonable assumptions
- Provides a monitoring approach to track changes and monitor progress









Focus Group Discussion

• Questions, comments, and input on the draft PCAP (20 minutes)



OTHER CAP IMPLEMENTATION TOOLS

Project Options Checklists

 Apply to new development projects

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- Allow projects to demonstrate consistency with the adopted CAP through menu of options
 - Six residential options
 - Six nonresidential options



Image by Michael Baker International



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Project Options Checklists

- Achieve GHG reduction recommended by the SJVAPCD
- Help projects comply with Indirect Source Rule and CEQA
- Integrate with UDM and other resources



Image by Michael Baker International



Focus Group Discussion

- Input and comment on the draft Project Options Checklists (15 minutes)
 - Questions on the new options?
 - Questions on connection between options and the PCAP?



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UDM (Unified Design Manual)

- Provides visual design guidance to help project applicants and City staff implement the PCAP
- Supports the Project **Options Checklists** and compliance with regulations







2.2 Pedestrian- and Bicycle-Friendly Street Designs A. Pedestrian Design



3.1 Site Planning for Transit, Bike, & Pedestrian Access F. Passenger Loading & Unloading Areas at Destinations



Design Considerations

- I. The provision of designated off-street passenger dropoff and pick-up zones should be considered at major destinations, such as shopping centers and schools, for transit users, pedestrians, and cyclists.
 - 2. Amenities should be provided for passenger waiting areas such as shade trees, shelters, benches, newspaper vending machines, and lighting.
 - 3. The placement of public transit/bus drop-off areas should be considered within project sites for convenient pick-up and drop-off.
 - 4. Passenger loading and unloading areas are encouraged to be co-located with public open spaces such as plazas to allow use of their amenities

Hout area from the parking area to

designed with special paving from the street or sidewak nterfere with the circulation of g area or at building entrances.

Design considerations passenger unloading intended. to create safe and comfortable zones for pedestrians to embark and disembark from public transit, private vehicles, and bicycles.



Focus Group Discussion

• Questions, comments, and input on the draft UDM (15 minutes)



Monitoring Tool

- Allows staff to track CAP implementation
- Estimates GHG emissions in future years
 - Adjusts forecasts to account for changes in population
 - Accounts for anticipated state actions by 2020; allows for entry of additional state action in key sectors

Monitoring Tool: Data Entry

2013 Analysis			2008	2009	2010	2011	2012	2013
This works Clear	labels for formation	annual GHG emis:	sions estimates for	onc	ving mu e allow hange	s staff t	o track	
should	go where		2013					_
,			2008	2009	2010	2011	2012	2013
Note:	Population		78,107	10,000	30,000		79,352	80,524
	Jobs		24,415	5,000	12,000		24,761	25,37
	Households		25,229	5,000	14,000		25,657	26,18
Although acreage values	Housing units (excluding m	obile homes)	24,544	10,000	15,000		24,929	27,48
have been pre-populated,	Residential Acreage		9,948	10,087	10,225	10,364	10,502	10,64
these can be overwritten as	City Area (acres)		20,711	21,039	21,367	21,694	22,022	22,35
more data becomes available.	City Area (miles)		32.36	32.87	33.39	33.90	34.41	34.9
Activity Data								
PG&E Electricity	PG&E Residential Electricit	y (kWh)	160,462,546	160,462,546	155,000,000			160,462,546
Source: PG&E Report	PG&E Nonresidential Elect	ricity (kWh)	126,151,183	126,151,183	120,000,000			126,151,183
Source: PG&E Fact Sheet	PG&E Emissions Factor (lbs CO ₂ /MWh)		641	575	575	393	445	575
<u>≺≺See Example>></u>	PG&E Renewable Portfolio	Percentage	12.4%	14.1%	17.7%	19.8%	19.0%	23.8
MID icity	MID Residential Electricity (LUL	25,420,988	25,420,988	20.000.000			25,420,988
	ial Electricity		200,206,438	200,206,438	200.000.000			200,206,438
Example			920	920	920			920
where and	how here			0.02	0.04			0.01

to obtain data

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Monitoring Tool: Dashboard





Monitoring Tool: Annual Report





Focus Group Discussion

• Questions, comments, and input on the monitoring tool (10 minutes)



Zoning Code Index

- Code Index provides recommendations for the future citywide code update, as a resource for City staff
 - No specific Zoning Code updates resulting from PCAP project
 - Instead, PCAP provides Project Options Checklist and UDM to create flexibility and options for new projects



Zoning Code Index – Future Options

Development Code Index and Unified Design Manual Options								
to Implement CAP Strategies								
2012 CAP Strategies	Development Code Topics/Categories	Unified Design Manual Topics/Categories	Admin Practices	Other Implementation Tools				
CAP Strategies and Actions for New Development (Appendix E)								
Strategy EM 1.5: Mobility De	velopment Review Policie	S						
EM 1.5.1 (Apply transit standards to new development projects)	ZC - Pedestrian standards, special site design requirements SO – subdivision design	Subdivision design, block lengths, pedestrian access/circulation		ТМР, ВМР, РМР				
EM 1.5.2 (Apply bicycle standards to new development projects)	ZC - Bicycle parking standards and connectivity standards	Bicycle parking design		BMP				
EM 1.5.3 (Apply pedestrian standards to new development projects)	ZC - Pedestrian standards, landscape standards	Pedestrian connectivity concepts and design		РМР				
EM 1.5.4 (Consider amendments to ordinances for transit shelters, secure bike parking, and pedestrian pathways)	ZC - Bicycle parking standards, pedestrian standards			ТМР, ВМР, РМР				
EM 1.5.4 (Encourage improved accessibility to transit system for projects within 2K ft. of transit stop)	ZC - Pedestrian standards, special site design requirements	Site design concepts for access						
EM 1.5.5 (Ensure multiple access points for new development)	ZC - Pedestrian standards	Site design concepts for access						



Zoning Code Index - Sample Recommendations

- 1. Code could expand pedestrian and bicycle connections and circulation standards and include infill compatibility standards
- 2. Additional setback standards and landscape standards in mixed-use districts could allow for transit-supportive facilities
- 3. Code could include shade tree requirements for areas outside parking lots
- 4. Code could add standards for locating and operating small-scale recycling facilities.



Focus Group Discussion

 Questions and comments on the Zoning Code Index(5 minutes)



NEXT STEPS



Questions for Focus Group

- What is your initial feedback on the PCAP and the package of implementation tools?
- What are your questions on how the tools fit together and relate?



Questions for Focus Group

- Do you believe another Focus Group meeting will be beneficial to review and provide a final recommendation on the documents?
- Are you ready to provide a final recommendation today?





- Project team will update draft documents, based on input from the Focus Group and City staff
- City staff will initiate preparation of environmental review document for PCAP and UDM
- One final Focus Group meeting, as needed, to review updated documents prior to recommendation to the City Council





- Thursday, 9/24: Focus Group provides any additional written comments on documents to Bill
- Mid to late October: release updated PCAP and UDM
- November: potential final Focus Group meeting, as needed
- December: release final draft PCAP and UDM
- Early 2016: City Council hearing



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Please use comment cards for any additional thoughts you'd like to share. You can also provide any additional thoughts later by e-mail directly to Bill King.

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