			Year 2030 Estimated Reduction			Estimated F		
Reduction		Quantified		/ITCO2e/yr)			MTCO2e/yr)	
Strategy	Summary	(Y/N)	Existing	Future	Total	Existing	Future	Total
	Emissions Reductions Resulting from		4.550	70.070	72 427	2.005	462 504	465 506
	Implementation of Statewide RPS		1,559	70,878	72,437	3,095	162,501	165,596
TN 4 -4	Bicycle and Pedestrian Infrastructure (Both on-	V		0.070	0.070		40.027	40.027
TM-1	and off-site)	Υ		9,070	9,070		10,827	10,827
	Congestion Reduction (Applied as 25% of							
TM-2	roadways & Intersections would have traffic	Υ		22.674	22.674		27.066	27.066
1 IVI-Z	calming)	Y		22,674	22,674		27,066	27,066
	Increased Use of Alternative Transportation (See							
TM-3	TM-3a and TM-3b below)							
5	Expand Transit Service Coverage (Increase							
TM-3a	Transit network 50%)	Υ		2,265	2,265		2,381	2,381
	Increase Frequency of Transit Service (Reduce			,	,		,	,
TM-3b	Headways by 25%)	Υ		572	572		361	361
	Reduce Parking Supply (Reduce Parking Supply			-				
TM-4	by 10% based on ITE average)	Υ		22,944	22,944		27,066	27,066
TM-5	Optimize City Fleet	Υ		219	219		605	605
TM-6	Electric Vehicle Charging Infrastructure	Υ	0	8.5	8	0	17.0	17
	Encourage Reuse (Assumed to be captured in							
LU-1	Sustainable Growth)	(See LU-3)						
	Comply with State Affordable Housing							
	Requirements (Per Housing Element incorporate							
LU-2	22.6% of housing below market rate)	Υ	0	4,370	4,370	0	4,894	4,894
	Sustainable Growth (Increased land use							
LU-3	diversity)	Υ	0	45,619	45,619	0	54,133	54,133
	Urban Tree Program (No quantification method							
LU-4	found)	N						
LU-5	Safe Routes to School	Υ	91	707	798	91	1,156	1,247
	Renewable Energy Production Plan (Existing							
EM-1	Quantified, future reductions captured by EM-3)	Υ	179	0	179	179	0	179
	Energy Efficiency Improvements for City							
EM-2	Buildings	Υ	25		25	25		25

	Renewable Energy Requirement for Private							
EM-3	Development	Υ	0	13,647	13,647	0	0	0
EM-4	Participate in Assembly Bill 811 Energy Programs	N						
EM-5	Enforce CALGreen	Υ	0	6,366	6,366	0	9,786	9,786
EM-6	Energy Efficient Design	Υ	0	4,703	4,703	0	64	64
EM-7	Energy Efficient Design of City Structures	Υ	0	25	25	0	234	234
EM-8	Improve Lighting Efficiency	Υ	33	0	33	33	0	33
	Communitywide Water Use Efficiency (Captured							
WM-1	under EM-5)							
WM-2	Water Efficient Landscaping	Υ	0	224	224	0	4	4
	Sustainable Wastewater Service (Use reclaimed							
WM-3a	water 10%)	Υ		315	315		1	1
	Sustainable Wastewater Service (Use grey water							
WM-3b	10%)	Υ		112	112		2	2
	Methane Capture and Co-generation at							
WM-3C	Wastewater Treatment Plant				0			0
	Solid Waste Reduction (Modeled as 25% for							
SWM-1	2030 and 50% for 2050)	Υ		5,111	5,111		16,898	16,898
SWM-2	See Measure SWM-1	Υ						
	Total Emissions Reductions from Reduction	Strategies:	1,887	209,828	211,715	3,423	317,994	321,417
	Emissions Reduction Required to M	leet Target:			450,391			850,811
		Difference:			238,676			529,394

TM-5 Calculations: Optimize City Fleet

Fleet Mix	# Vehicles	City Population	Emissions Factor (MTCO2/yr-vehicle)	Total Emissions (MTCO2e/yr)			
	Existing Fleet						
Combustion	15	3,519	3.20	48.00			
			2030 Fleet				
EV	68		0.00	0.00			
Combustion	83		3.20	267.14			
Total	152	39,169		267.14			
			Reduction:	219.14			
			2050 Fleet				
EV	189		0.00	0.00			
Combustion	68		3.20	219.14			
Total	258	63,968		219.14			
			Reduction:	605.40			

TM-6 Calculations: Electric Vehicle Charging Infrastructure

# EV Stations Added	Annual Emissions Reduction/Station (MTCO2/yr)*	Total Annual Reductions (MTCO2/yr)
5	1.69702	8.4851
10	1.69702	16.9702

^{*}Per Chico CAP (Appendix D-1)

Vear 2030

	MWh	CO2lbs/MWh	Emissions			
2010 Quantified Electricity Emissions						
Residential Energy	6.573034	445	2925			
Municipal Energy	0.382022	445	170			
Future Emis	Future Emissions with RPS Emission Factors					
Residential Energy	6.573034	220.9	1451.983146			
Municipal Energy	0.382022	220.9	84.38876404			

Reduction in Municipal Energy Consumption due to energy efficiency improvements (30%			
Improvement)	0.267416	220.9	59.07213483
Emission Reduction Due to Municipal Energy Efficiency Upgrades	25.31663		

Emission Reductio	n Due to RPS
Residential Energy	1473.016854
Municipal Energy	85.61123596

o	on Due to RPS	
	1473.016854	
	85.61123596	

			Year		
	MWh	O2lbs/MW	Emissions		
2010 Quantified Electricity Emissions					
Residential Energy	6.573034	445	2925		
Municipal Energy	0.382022	445	170		
Future Emissions with RPS Emission Factors					
Residential Energy	6.573034	0	0		
Municipal Energy	0.382022	0	0		

Reduction in Municipal			
Energy Consumption			
due to energy			
efficiency			
improvements (30%			
Improvement)	0.267416	0	0
Emission Reduction			
Due to Municipal			
Energy Efficiency			
Upgrades	0		

Emission Reduction D	ue to RPS
Residential Energy	2925
Municipal Energy	170