# Appendix C: CAPCOA Mitigation Quantification Report Reduction Summary Tables

Understanding and Using the Fact Sheets

Chart 6-1: Non-Transportation Strategies Organization



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	Energy		 Wa	ater	Area Landscaping	Solid Waste	Vegetation	Construction	Miscellaneous	General Plans
BE	AE	LE	WSW	WUW	A	SW	V	С	Misc	GP
Building Energy	Alternative Energy	Lighting	Water Supply	Water Use	Landscaping Equipment	Solid Waste	Vegetation	Construction	Miscellaneous	General Plans
Exceed Title 24	Onsite Renewable Energy	Install High Efficacy Lighting	Adopt Conservati	a Water on Strategy DR	Prohibit gas Powered Landscape Equipment	Institute or Extend Recycling & Composting Services	Plant Urban Trees	Use Alternative Fuels for Construction Equipment	Establish Carbon Sequestration	Fund Incentives for Energy Efficiency
Install Energy Efficient Appliances	Utilize Combined Heat & Power	Limit Outdoor Lighting	Use Reclaimed Water	Install Low-Flow Fixtures	Implement Lawnmower Exchange Program Reduction: Grouped	Recycle Demolished Construction Material	New Vegetated Open Space	Use Electric or Hybrid Construction Equipment	Establish Off-site Mitigation	Establish a Local Farmer's Market
Install Programmable Thermostats Reduction: Grouped	Establish Methane Recovery	Replace Traffic Lights with LED Reduction: Additional	Use Graywater	Design Water- Efficient Landscapes	Electric Yard Equipment Compatibility Reduction Grouped			Limit Construction Equipment Idling	Implement an Innovative Strategy	Establish Community Gardens
Obtain 3rd Party Commissioning Reduction: Grouped			Use Locally Sourced Water	Use Water- Efficient Irrigation				Institute a Heavy-Duty Off-Road Vehicle Plan	Use Local and Sustainable Building Materials	Plant Urban Shade Trees
				Reduce Turf Plant Native or Drought- Resistant				Implement a Construction Vehicle Inventory Tracking System	Require BMP in Agriculture and Animal Operations	Implement Strategies to Reduce Urban Heat-Island Effect
Note: Strategies strategies with ro non-bolded strat strategies.	in bold text are p eported VMT red tegies are suppor	orimary uctions; t or grouped		vegetation					Require Environmentally Responsible Purchasing	



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### Table 6-1: Energy Category

Energy										
Category	Measure	Strategy	BMP	Grouped With #	Range of Effec	tiveness				
					Percent Reduction in GHG Emissions	Basis				
Use	BE-1	Buildings exceed Title 24 Building Envelope Energy Efficiency Standards by X% (X is equal to the percentage improvement selected for the project			For a 10% improvement ov Non-Residential electricity of natural gas use: 0.7-10% Residential electricity use: 0 gas use: 7.5-9.1%	er 2008 Title 24: use: 0.2-5.5%; 0.3-2.6%; natural				
ergy	BE-2	Install Programmable Thermostat Timers	х		BMP					
ilding En	BE-3	Obtain Third-party HVAC Commissioning and Verification of Energy Savings	х	BE-1	BMP					
Bu	BE-4	Install Energy Efficient Appliances			Residential building: 2-4% Grocery Stores: 17-22%	Appliance Electricity Use				
	BE-5	Install Energy Efficient Boilers			1.2-18.4%	Fuel Use				
	AE-1	Establish Onsite Renewable Energy Systems-Generic			0-100%					
ġy	AE-2	Establish Onsite Renewable Energy Systems-Solar Power			0-100%					
e Enei ration	AE-3	Establish Onsite Renewable Energy Systems-Wind Power			0-100%					
nativ iene	AE-4	Utilize a Combined Heat and Power System			0-46%					
Alteri G	AE-5	Establish Methane Recovery in Landfills			73-77%					
1	AE-6	Establish Methane Recovery in Wastewater Treatment Plants			95-97%					
Вu	LE-1	Install Higher Efficacy Public Street and Area Lighting			16-40%	Outdoor Lighting Electricity Use				
-ighti	LE-2	Limit Outdoor Lighting Requirements	х		BMP					
	LE-3	Replace Traffic Lights with LED Traffic Lights			90%	Traffic Light Electricity Use				

Understanding Fact Sheets

Table 6-2: Transportation Category

Chapter 6

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	Transportation									
Category	Measure	Strategy	BMP	Grouped	Range of Effectiveness					
5,	Number	5		With #	Percent Reduction in GHG Emissions	Basis				
	LUT-1	Increase Density			1.5-30.0%	VMT				
	LUT-2	Increase Location Efficiency			10-65%	VMT				
ttion	LUT-3	Increase Diversity of Urban and Suburban Developments (Mixed Use)			9-30%	VMT				
oce	LUT-4	Incr. Destination Accessibility			6.7-20%	VMT				
l∕e	LUT-5	Increase Transit Accessibility			0.5-24.6%	VMT				
nd Use	LUT-6	Integrate Affordable and Below Market Rate Housing			0.04-1.20%	VMT				
Lar	LUT-7	Orient Project Toward Non-Auto Corridor			NA					
	LUT-8	Locate Project near Bike Path/Bike Lane			NA					
	LUT-9	Improve Design of Development			3.0-21.3%	VMT				
	SDT-1	Provide Pedestrian Network Improvements			0-2%	VMT				
gn	SDT-2	Traffic Calming Measures			0.25-1.00%	VMT				
Desi	SDT-3	Implement a Neighborhood Electric Vehicle (NEV) Network			0.5-12.7%	VMT				
Site	SDT-4	Urban Non-Motorized Zones		SDT-1	NA					
; / poc	SDT-5	Incorporate Bike Lane Street Design (on-site)		LUT-9	NA					
borhc	SDT-6	Provide Bike Parking in Non- Residential Projects		LUT-9	NA					
Veigh	SDT-7	Provide Bike Parking in Multi- Unit Residential Projects		LUT-9	NA					
2	SDT-8	Provide EV Parking		SDT-3	NA					
	SDT-9	Dedicate Land for Bike Trails		LUT-9	NA					
	PDT-1	Limit Parking Supply			5-12.5%	6				
ng ricing	PDT-2	Unbundle Parking Costs from Property Cost			2.6-13%					
Parkii icy / F	PDT-3	Implement Market Price Public Parking (On-Street)			2.8-5.55	%				
Pol	PDT-4	Require Residential Area Parking Permits		PDT-1, 2 & 3	NA					



Transportation - continued										
Category	Measure	Strategy	BMP	Grouped	Range of Effect	tiveness				
outogory	Number	Chalogy	Bivi	With #	Percent Reduction in GHG Emissions	Basis				
	TRT-1	Implement Voluntary CTR Programs			1.0-6.2%	Commute VMT				
	TRT-2	Implement Mandatory CTR Programs – Required Implementation/Monitoring			4.2-21.0%	Commute VMT				
	TRT-3	Provide Ride-Sharing Programs			1-15%	Commute VMT				
	TRT-4	Implement Subsidized or Discounted Transit Prog.			0.3-20.0%	Commute VMT				
	TRT-5	Provide End of Trip Facilities		TRT-1, 2 & 3	NA					
rograms	TRT-6	Telecommuting and Alternative Work Schedules			0.07-5.50%	Commute VMT				
ction P	TRT-7	Implement Commute Trip Reduction Marketing			0.8-4.0%	Commute VMT				
Reduc	TRT-8	Implement Preferential Parking Permit Program		TRT-1, 2 & 3	NA					
Trip	TRT-9	Implement Car-Sharing Program			0.4-0.7%	VMT				
	TRT-10	Implement School Pool Program			7.2-15.8%	School VMT				
	TRT-11	Provide Employer-Sponsored Vanpool/Shuttle			0.3-13.4%	Commute VMT				
	TRT-12	Implement Bike-Sharing Program		SDT-5, LUT-9	٢	IA				
	TRT-13	Implement School Bus Program			38-63%	School VMT				
	TRT-14	Price Workplace Parking			0.1-19.7%	Commute VMT				
	TRT-15	Implement Employee Parking "Cash-Out"			0.6-7.7%	Commute VMT				



Transportation - continued										
Category	Measure	Strategy	BMP	Grouped	Range of Effectiveness					
				vviti <i>#</i>	Percent Reduction in GHG Emissions	Basis				
ents	TST-1	Provide a Bus Rapid Transit System			0.02-3.2%	VMT				
oveme	TST-2	Implement Transit Access Improvements		TST-3, TST-4	NA					
mpr	TST-3	Expand Transit Network			0.1-8.2%	VMT				
tem I	TST-4	Increase Transit Service Frequency/Speed			0.02-2.5%	VMT				
sit Sys	TST-5	Provide Bike Parking Near Transit		TST-3, TST-4	NA					
Tran	TST-6	Provide Local Shuttles		TST-3, TST-4	NA					
	RPT-1	Implement Area or Cordon Pricing			7.9-22.0%	VMT				
g/ nt	RPT-2	Improve Traffic Flow			0-45%	VMT				
d Pricinç Iagemei	RPT-3	Require Project Contributions to Transportation Infrastructure Improvement Projects		RPT-2, TST-1 to 6	NA					
Roa Mar	RPT-4	Install Park-and-Ride Lots		RPT-1, TRT-11, TRT-3, TST-1 to 6	NA					
es	VT-1	Electrify Loading Docks and/or Require Idling-Reduction Systems			26-71%	Truck Idling Time				
/ehic	VT-2	Utilize Alternative Fueled Vehicles			Varies					
	VT-3	Utilize Electric or Hybrid Vehicles			0.4-20.3%	Fuel Use				



### Table 6-3: Water Category

			Wate	er		
Category	Measure Number	Strategy	BMP	Grouped With #	Range of Effect	tiveness
					Percent Reduction in GHG Emissions	Basis
ply	WSW-1	Use Reclaimed Water			up to 40% for Northern Californiaup to 81% for Southern California	Outdoor Water Use
Sup	WSW-2	Use Gray Water			0-100%	Outdoor Water Use
Water	WSW-3	Use Locally-Sourced Water Supply			0-60% for Northern and Central California; 11-75% for Southern California	Indoor and Outdoor Water Use
	WUW-1	Install Low-Flow Water Fixtures.			Residential: 20% Non-Residential: 17- 31%	Indoor Water Use
0)	WUW-2	Adopt a Water Conservation Strategy.			varies	
r Us	WUW-3	Design Water-Efficient Landscapes			0-70%	Outdoor Water Use
Nate	WUW-4	Use Water-Efficient Landscape Irrigation Systems			6.1%	Outdoor Water Use
>	WUW-5	Reduce Turf in Landscapes and Lawns			varies	
	WUW-6	Plant Native or Drought- Resistant Trees and Vegetation			BMP	



	Area Landscaping									
Category	Measure	Strategy	BMP	Grouped With #	Range of Effectiveness					
	Number				Percent Reduction in GHG Emissions	Basis				
dscaping	A-1	Prohibit Gas Powered Landscape Equipment.			LADWP: 2.5-46.5% PG&E: 64.1-80.3% SCE: 49.5-72.0% SDGE: 38.5-66.3% SMUD: 56.3-76.0%	Fuel Use				
Lan	A-2	Implement Lawnmower Exchange Program			BMP					
Area	A-3	Electric Yard Equipment Compatibility		A-1 or A-2	BMP					

# Table 6-4: Area Landscaping



### Table 6-5: Solid Waste Category

Solid Waste									
Category	Measure	Strategy	BMP	Grouped	Range of Effectiveness				
	Number	Chalogy		With #	Percent Reduction in GHG Emissions	Basis			
Solid Waste	SW-1	Institute or Extend Recycling and Composting Services			BMP				
	SW-2	Recycle Demolished Construction Material			BMP				



	Vegetation									
Category	Measure	Stratogy	BMP	Grouped With #	Range of Effectiveness					
	Number	Strategy			Percent Reduction in GHG Emissions	Basis				
tion	V-1	Urban Tree Planting		GP-4	varies					
Vegeta	V-2	Create new vegetated open space.			varies					

### Table 6-6: Vegetation Category



	Construction										
Category	Measure	Strategy	BMP	Grouped With #	Range of Effectiveness						
	Number				Percent Reduction in GHG Emissions	Basis					
	C-1	Use Alternative Fuels for Construction Equipment			0-22%	Fuel Use					
u	C-2	Use Electric and Hybrid Construction Equipment			2.5-80%	Fuel Use					
Instructio	C-3	Limit Construction Equipment Idling beyond Regulation Requirements			varies						
Co	C-4	Institute a Heavy-Duty Off- Road Vehicle Plan		Any C	BMP						
	C-5	Implement a Vehicle Inventory Tracking System		Any C	BMP						

### Table 6-7: Construction Category



Miscellaneous									
Category	Measure	Stratogy	BMD	Grouped	Range of Effect	iveness			
	Number	Strategy	DIVIF	With #	Percent Reduction in GHG Emissions	Basis			
	Misc-1	Establish a Carbon Sequestration Project			varies				
S	Misc-2	Establish Off-Site Mitigation			varies				
neou	Misc-3	Use Local and Sustainable Building Materials	х		BMP				
Miscellar	Misc-4	Require Best Management Practices in Agriculture and Animal Operations	х		BMP				
	Misc-5	Require Environmentally Responsible Purchasing	х		BMP				
	Misc-6	Implement an Innovative Strategy for GHG Mitigation	х		BMP				

### Table 6-8: Miscellaneous Category



#### Table 6-9: General Plans

General Plan Strategies									
Category	Measure	Strategy	BMP	Grouped With #	Range of Effectiver	IESS			
	Number	0			Percent Reduction in GHG Emissions	Basis			
	GP-1	Fund Incentives for Energy Efficiency	х		BMP				
lans	GP-2	Establish a Local Farmer's Market	х		BMP				
al F	GP-3	Establish Community Gardens	х		BMP				
Gener	GP-4	Plant Urban Shade Trees	х	V-1	BMP				
	GP-5	Implement Strategies to Reduce Urban Heat-Island Effect	x		BMP				