

	GROUP	No. ¹	REGISTRY ²	PROTOCOL/METHODOLOGY	SECTOR ³	SIMILAR PROGRAMS OR REGISTERED PROJECTS IN CALIFORNIA			
MEASURES OR SUPPORTING EFFORTS IN OTHER CAPS	Nitrogen Fertilizer Management	3	VCS	Quantifying N ₂ O Emissions Reductions in Agricultural Crops through Nitrogen Fertilizer Rate Reduction	Agriculture	<ul style="list-style-type: none"> Butte County CAP Napa County CAP (Final Draft) 	<ul style="list-style-type: none"> Riverside County CAP San Mateo County CAP 		
		4	ACR	Reduced Use of Nitrogen Fertilizer on Agricultural Crops	Agriculture				
	--	20	VCS	Campus Clean Energy and Energy Efficiency	Energy Efficiency/Production	<ul style="list-style-type: none"> San Mateo County CAP 			
	--	26	CAPCOA GHG Rx	Biomass Waste for Energy Project Reporting Protocol	Energy Efficiency/Production	<ul style="list-style-type: none"> Napa County CAP (Final Draft) 			
	--	27	CAPCOA GHG Rx	Improvement of the Efficiency of a Natural Gas-Fired Boiler or Process Heater	Energy Efficiency/Production	<ul style="list-style-type: none"> San Mateo County CAP 			
	Organic Waste Digestion	84	CAR	Organic Waste Digestion	Landfill/Waste Management	<ul style="list-style-type: none"> City of Carlsbad CAP City of San Diego CAP Contra Costa County CAP 	<ul style="list-style-type: none"> Los Angeles County CAP San Bernardino Regional CAP San Mateo County CAP 		
		85	CAPCOA GHG Rx	Organic Waste Digestion Project Protocol	Landfill/Waste Management				
--	89	CAPCOA GHG Rx	Biochar Production Project Reporting Protocol	Landfill/Waste Management	<ul style="list-style-type: none"> Napa County CAP (Final Draft) 				
MEASURES OR SUPPORTING EFFORTS IN OTHER CAPS AND SIMILAR INDEPENDENT PROJECTS AND PROGRAMS	Manure Management (Biogas Control System)	5	CAR	U.S. Livestock	Agriculture	<ul style="list-style-type: none"> ABEC New Hope LLC CalBio ORRD Project CDFA Dairy Digester Research and Development Program Cottonwood Dairy Livestock Gas Capture Project Fiscalini Farms Anaerobic Digester 	<ul style="list-style-type: none"> GJ TeVelde Ranch Energy, LLC Open Sky Ranch Dairy Digester Pacific Rim Dairy Digester Pixley Biogas, LLC San Bernardino Regional CAP Van Steyn Dairy Digester Verwey Hanford Dairy Digester 		
		6	CAPCOA GHG Rx	CAR U.S. Livestock Project Protocol Version 4.0	Agriculture				
		7	CAPCOA GHG Rx	Revised Compliance Offset Protocol Livestock Projects	Agriculture				
	--	8	VCS	Adoption of Sustainable Agricultural Land Management (SALM)	Agriculture	<ul style="list-style-type: none"> CDFA Healthy Soils Grant Program Contra Costa County CAP 	<ul style="list-style-type: none"> Napa County CAP (Final Draft) San Mateo County CAP 		
	--	16	VCS	New Cogeneration Facilities Supplying Less Carbon Intensive Electricity to Grid and/or Hot Water to One or More Grid Customers	Energy Efficiency/Production	<ul style="list-style-type: none"> City of Carlsbad CAP Contra Costa County CAP 	<ul style="list-style-type: none"> CPUC Self-Generation Incentive Program San Bernardino Regional CAP 		
	Weatherization of Single Family & Multi-Family Buildings	17	VCS	Weatherization of Single Family and Multi-Family Buildings	Energy Efficiency/Production	<ul style="list-style-type: none"> Butte County CAP California Low-Income Weatherization Program City of Carlsbad CAP Contra Costa County CAP CPUC Energy Savings Assistance Program 	<ul style="list-style-type: none"> Federal HHS Low-Income Home Energy Assistance Program Los Angeles County CAP Napa County CAP (Final Draft) Riverside County CAP San Bernardino Regional CAP San Mateo County CAP 		
		18	CAPCOA GHG Rx	Weatherization of Single Family and Multi-Family Buildings	Energy Efficiency/Production				
	--	21	VCS	Methodology for Installation of Low-Flow Water Devices	Energy Efficiency/Production	<ul style="list-style-type: none"> California Department of Water Resources Water-Energy Grant Program 	<ul style="list-style-type: none"> Los Angeles County CAP Napa County CAP (Final Draft) San Bernardino Regional CAP 		
	Avoided Forest Degradation	40	VCS	Methodology for Carbon Accounting for Mosaic and Landscape-scale REDD Projects	Land Use Management	<ul style="list-style-type: none"> Bewley Ranches IFM Blue Creek IFM Blue Source - Hancock McCloud IFM Blue Source - Hawthorne Ten Mile Watershed IFM Brush Creek IFM Cal Fire Forest Health Grant Program Cappell Creek IFM Clear Heart IFM 	<ul style="list-style-type: none"> Congaree River IFM Devil Fire Reforestation Hanes Ranch Forest Carbon Project Lord Ellis IFM Los Angeles County CAP Miller Forest IFM Napa County CAP (Final Draft) Round Valley Indian Tribes IFM San Mateo County CAP Storrie Fire Reforestation 		
		41	VCS	REDD+ Methodology Framework (REDD-MF)	Land Use Management				
	Avoided Forest Deforestation	42	VCS	Methodology for Avoided Unplanned Deforestation	Land Use Management				
		43	ACR	Reducing Emissions from Deforestation and Degradation (REDD) – Avoiding Planned Deforestation	Land Use Management				
	--	44	VCS	Methodology for Avoided Ecosystem Conversion	Land Use Management				
	Improved Forest Management	48	ACR	Improved Forest Management (IFM) for Non-Federal U.S. Forestlands	Land Use Management				
		50	CAPCOA GHG Rx	CAPCOA GHG Rx Forestry Protocol #2: 100-year Improved Forest Management 50 CAPCOA GHG Rx Methodology for Quantifying GHG Removals and Emission Reductions through Increased Forest Carbon Sequestration	Land Use Management				
	--	51	ACR	Afforestation and Reforestation of Degraded Lands	Land Use Management				
	Restoration of Wetlands	52	VCS	Methodology for Coastal Wetland Creation	Land Use Management			<ul style="list-style-type: none"> CDFW Wetlands Restoration for GHG Reduction Program Napa County CAP (Final Draft) 	
		53	CAPCOA GHG Rx	Coastal Wetland Creation	Land Use Management				
		54	VCS	Methodology for Tidal Wetland and Seagrass Restoration	Land Use Management				
		55	ACR	Restoration of California Deltaic and Coastal Wetlands	Land Use Management				
56		CAPCOA GHG Rx	Quantifying Greenhouse Gas Reductions from Wetland Implementation and Rice Cultivation in the Sacramento-San Joaquin Delta, San Francisco Estuary and the Coast of California	Land Use Management					
--	57	CAR	Urban Tree Planting	Land Use Management	<ul style="list-style-type: none"> Cal Fire Urban and Community Forestry Program City of Encinitas CAP (2017 Draft) City of San Diego CAP Contra Costa County CAP 	<ul style="list-style-type: none"> Los Angeles County CAP Riverside County CAP San Bernardino Regional CAP San Mateo County CAP 			

Local Direct Investment Protocol Research: Similar Programs or Registered Projects in California

	GROUP	No. ¹	REGISTRY ²	PROTOCOL/METHODOLOGY	SECTOR ³	SIMILAR PROGRAM OR REGISTERED PROJECT IN CALIFORNIA
MEASURES OR SUPPORTING EFFORTS IN OTHER CAPS AND SIMILAR INDEPENDENT PROJECTS AND PROGRAMS (CONT.)	--	83	CAR	Organic Waste Composting	Landfill/Waste Management	<ul style="list-style-type: none"> • Butte County CAP • CalRecycle Food Waste Prevention and Rescue Grant Program • CalRecycle Greenhouse Gas Reduction Loan Program • CalRecycle Organics Grant Program • City of Encinitas CAP (2017 Draft)
	Landfill Gas Capture and Destruction/Use	86	CAR	U.S Landfill	Landfill/Waste Management	<ul style="list-style-type: none"> • City of San Diego CAP • Contra Costa County CAP • Los Angeles County CAP • Napa County CAP (Final Draft) • Riverside County CAP • San Bernardino County CAP • San Mateo County CAP
		87	ACR	Landfill Gas Destruction and Beneficial Use Projects	Landfill/Waste Management	
		88	ACR	Landfill Methane Collection and Combustion	Landfill/Waste Management	
	--	100	VCS	Methodology for Carpooling	Transportation	<ul style="list-style-type: none"> • Butte County CAP • CARB Car Sharing and Mobility Options Pilot Project • City of Carlsbad CAP • City of Encinitas CAP (2017 Draft) • City of San Diego CAP
	--	101	VCS	Revisions to AMS-III.BC (Improve Efficiency of Vehicle Fleets) to Include Mobile Machinery	Transportation	<ul style="list-style-type: none"> • Contra Costa County CAP • Los Angeles County CAP • Napa County CAP (Final Draft) • Riverside County CAP • San Bernardino Regional CAP • San Mateo County CAP
--	102	ACR	Improved Efficiency of Vehicle Fleets	Transportation	<ul style="list-style-type: none"> • Butte County CAP • CARB Advanced Technology Demonstration Projects • CARB Off-Road Mobile Agricultural Equipment Trade-Up Pilot Project • City of Carlsbad CAP • City of Encinitas (2017 Draft) • City of San Diego CAP • Contra Costa County CAP • Napa County CAP (Final Draft) • Riverside County CAP • San Bernardino Regional CAP • San Mateo County CAP 	
SIMILAR INDEPENDENT PROJECTS AND PROGRAMS	--	9	VCS	Revisions to AMS-III.Y to Include Use of Organic Bedding Material	Agriculture	• CDFA Alternative Manure Management Program (AMMP)
	Conservation of Grassland	45	CAR	Grassland	Land Use Management	• CDFW Wetlands Restoration for GHG Reduction Program
		46	ACR	Avoided Conversion of Grasslands and Shrublands to Crop Production	Land Use Management	
	Improved Grassland Management	58	VCS	Soil Carbon Quantification Methodology	Land Use Management	
		59	VCS	Methodology for the Adoption of Sustainable Grasslands through Adjustment of Fire and Grazing	Land Use Management	
	Grazing Land Management	60	ACR	Grazing Land and Livestock Management	Land Use Management	
		61	VCS	Methodology for Sustainable Grassland Management (SGM)	Land Use Management	
Compost Additions to Grazed Grasslands	62	ACR	Compost Additions to Grazed Grasslands	Land Use Management		
	63	CAPCOA GHG Rx	Methodology for Compost Additions to Grazed Grasslands	Land Use Management		
PROTOCOLS NOT IDENTIFIED IN CALIFORNIA	--	19	VCS	Energy Efficiency and Solid Waste Diversion Activities within a Sustainable Community	Energy Efficiency/Production	
	--	22	ACR	Switch from non-renewable biomass for thermal applications	Energy Efficiency/Production	
	--	23	ACR	Energy Efficiency Measures in Thermal Applications of Non-Renewable Biomass	Energy Efficiency/Production	
	--	24	ACR	Low greenhouse gas emitting safe drinking water production systems	Energy Efficiency/Production	
	--	98	VCS	Fuel Switch from Gasoline to Ethanol in Flex-Fuel Vehicle Fleets	Transportation	

¹Protocol numbers correspond to those assigned in the Preliminary Assessment of the County of San Diego Local Direct Investment Program

²Greenhouse Gas Registries: American Carbon Registry (ACR), California Air Pollution Control Officers Association Greenhouse Gas Reduction Exchange (CAPCOA GHG Rx), Climate Action Reserve (CAR), and Verified Carbon Standard (VCS)

³Sector colors correspond to those assigned in the Preliminary Assessment of the County of San Diego Local Direct Investment Program