

CALIFORNIA CLIMATE INVESTMENTS

Updated Data Release























The following tables update the information in the 2019 Annual Report to the Legislature with data available as of May 31, 2019.



Since the 2019 Annual Report, the FY 2019-20 budget appropriated \$1.5 billion from the Greenhouse Gas Reduction Fund for California Climate Investments. Table ES-1 below shows FY 2019-20 and cumulative appropriation for investments as of July 2019.

Agencies administering California Climate Investments are continuing to implement existing programs and in the last six months have implemented \$914 million for more than 32,700 new projects that are achieving greenhouse gas (GHG) emission reductions and providing benefits to priority populations. Table ES-2 includes updated summary statistics for each California Climate Investments program as of May 31, 2019.

Table ES-1: Cumulative Appropriations for California Climate Investments

Administering Agency	Program	Appropriations ^{1,2} (\$M)		
		Cumulative Appropriations, Prior to FY 2019-20 Appropriations	FY 2019-20 Appropriations	Cumulative Total
 CALIFORNIA AIR RESOURCES BOARD	Community Air Protection	\$556	\$291	\$847
	Funding Agricultural Replacement Measures for Emission Reductions	\$197	\$65	\$262
	Low Carbon Transportation	\$1,722	\$492	\$2,214
 Caltrans	Active Transportation	\$10	–	\$10
	Low Carbon Transit Operations	\$459	– ²	\$459
 CALIFORNIA High-Speed Rail Authority	High-Speed Rail Project ³	\$2,523	– ²	\$2,523
 CALIFORNIA STATE TRANSPORTATION AGENCY	Transit and Intercity Rail Capital	\$1,030	– ²	\$1,030
 CALIFORNIA STRATEGIC GROWTH COUNCIL	Affordable Housing and Sustainable Communities	\$1,877	– ²	\$1,877
	Sustainable Agricultural Lands Conservation			
	Climate Change Research	\$29	\$5	\$34
	Technical Assistance	\$2	\$2	\$6
	Transformative Climate Communities	\$150	\$60	\$250
 CALIFORNIA AIR RESOURCES BOARD	Fluorinated Gases Emission Reduction Incentives	–	\$1	\$1
	Woodsmoke Reduction	\$5	–	\$8
 CALIFORNIA STATE JUDICIAL BRANCH	Low-Income Weatherization	\$192	\$10	\$212
 CALIFORNIA DEPARTMENT OF FOOD & AGRICULTURE	Alternative Renewable Fuels	\$3	–	\$3
	State Water Efficiency and Enhancement	\$65	–	\$65
 STATE OF CALIFORNIA WATER RESOURCES	State Water Project Turbines	\$20	–	\$20
	Water-Energy Grant	\$50	–	\$50
 STATE OF CALIFORNIA ENERGY COMMISSION	Food Production Investment	\$124	–	\$124
	Low-Carbon Fuel Production	\$13	–	\$13
	Renewable Energy for Agriculture	\$10	–	\$10
 CALIFORNIA AIR RESOURCES BOARD	Prescribed Fire Smoke Monitoring	\$6	\$2	\$8
 CALIFORNIA COASTAL COMMISSION	Coastal Resilience Planning	\$3	\$2	\$5
 CALIFORNIA CONSERVATION CORPS	Training and Workforce Development	\$24	\$14	\$38
 CALIFORNIA STATE PARKS	Wetlands and Watershed Restoration	\$46	\$0	\$47
 CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION	Healthy Soils	\$13	\$28	\$41
	Fire Prevention	\$107	\$84	\$191
	Prescribed Fire	\$25	\$35	\$60
	Sustainable Forests	\$457	\$170	\$627
	Wildland Urban Interface	–	\$10	\$10
 CALIFORNIA RECYCLING AND WASTE MANAGEMENT BOARD	Waste Diversion	\$136	\$25	\$161
 CALIFORNIA GOVERNOR'S OFFICE OF EMERGENCY SERVICES	Wildfire Response and Readiness	\$50	\$1	\$51
 CALIFORNIA natural resources AGENCY	Regional Forest and Fire Capacity	\$20	–	\$20
	Urban Greening	\$126	\$30	\$156
 Coastal Conservancy	Climate Ready	\$7	–	\$7
 STATE OF CALIFORNIA Wildlife Conservation Board	Climate Adaptation and Conservation Easements	\$20	–	\$20
 BAY AREA COASTAL ACTION CENTER	Coastal Resilience Planning	\$1	\$2	\$3
 CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY	Transition to a Carbon-Neutral Economy	–	\$3	\$3
 CALIFORNIA WATER BOARDS	Safe Drinking Water	–	\$100	\$100
 CALIFORNIA WORKFORCE DEVELOPMENT BOARD	Low Carbon Economy Workforce	–	\$35	\$35
Total		\$10,337	\$1,500	\$11,894

1 Appropriations listed are estimates based on published budgets, legislation, quarterly Cap-and-Trade auction results, and reversions to available funds. Administering agencies may transfer appropriations to other State agencies for implementing programs.

2 FY 2018-19 auctions have not yet occurred. Each quarterly auctions will increase Fiscal Year 2019-20 appropriations for programs with continuous appropriations.

3 SB 862 states that \$400 million shall be available to the California High-Speed Rail Authority beginning in FY 2015-16 as repayment of a loan from the GGRF to the General Fund. This money shall be repaid as necessary, based on the financial needs of the High-Speed Rail Project. \$100 million of loan amount is included in the reported \$2.5 billion cumulative appropriations.

Table ES-2: Summary of California Climate Investments and Outcomes through May 2019

Administering Agency	Subprogram	Cumulative Funding Status (\$M)			Implemented Projects					
		Allocated	Selected & Awarded ¹	Implemented	GHG Reduction (1,000 MTCO _{2e})	Cost per GHG (\$/MTCO _{2e})	Number of Projects	Funds Benefiting Priority Populations		
								(\$M)	%	
California Air Resources Board	Community Air Grants	\$25.0	\$9.9	\$9.2	- ²	N/A	26	\$8.9	97%	
	Community Air Protection Funds	\$780.0	\$414.4	\$156.1	70	\$2,215	1,173	\$136.8	88%	
	Funding Agricultural Replacement Measures for Emission Reductions	\$262.0	\$189.9	\$41.4	31	\$1,354	1,176	\$26.5	64%	
	Advanced Technology Freight Demonstration Projects	\$84.0	\$79.2	\$79.2	16	\$4,939	11	\$79.2	100%	
	Agricultural Worker Vanpools	\$10.7	\$6.0	\$6.0	5	\$1,307	1	\$6.0	100%	
	Clean Mobility Options for Disadvantaged Communities	\$48.1	\$31.6	\$9.6	3	\$2,952	7	\$9.6	100%	
	Clean Mobility in Schools Project	\$10.0	TBD							
	Clean Off-Road Equipment	\$40.0	TBD							
	Clean Truck & Bus Voucher Program	\$362.9	\$355.8	\$276.9	1,063	\$260	4,305	\$193.3	70%	
	Clean Vehicle Rebate Project	\$946.4	\$658.0	\$578.5	5,721	\$101	247,317	\$178.2	31%	
	Clean Cars For All (Enhanced Fleet Modernization Program/Plus-Up)	\$102.0	\$61.0	\$29.5	24	\$1,214	4,634	\$23.3	79%	
	Financing Assistance for Lower-Income Consumers	\$35.9	\$15.9	\$3.3	4	\$875	619	\$2.9	90%	
	Rural School Bus Pilot Projects	\$55.0	\$55.0	\$15.2	13	\$1,198	46	\$8.9	59%	
	Zero- and Near Zero-Emission Freight Facilities	\$155.0	\$153.3	\$148.7	50	\$2,997	10	\$148.7	100%	
Zero-Emission Truck and Bus Pilot Projects	\$85.0	\$82.8	\$82.8	107	\$778	9	\$64.5	78%		
California Department of Transportation	Active Transportation	\$10.0	\$10.0	\$10.0	<1	\$163,934	3	\$10.0	100%	
	Low Carbon Transit Operations	\$459.3	\$303.3	\$248.3	3,198	\$78	433	\$237.0	95%	
California High-Speed Rail Authority	High-Speed Rail	\$2,523.5	\$624.7	\$624.7	- ³	- ⁴	1	\$0.0	0%	
California State Transportation Agency	Transit and Intercity Rail Capital	\$1,030.3	\$2,376.1	\$338.9	2,340	\$145	21	\$327.9	97%	

Administering Agency	Subprogram	Cumulative Funding Status (\$M)			Implemented Projects				
		Allocated	Selected & Awarded ¹	Implemented	GHG Reduction (1,000 MTCO _{2e})	Cost per GHG (\$/MTCO _{2e})	Number of Projects	Funds Benefiting Priority Populations	
								(\$M)	%
Strategic Growth Council	Affordable Housing and Sustainable Communities	\$1,121.8	\$692.3	\$433.8	1,173	\$370	52	\$353.6	82%
	Sustainable Agricultural Lands Conservation	\$118.5	\$113.4	\$22.4	TBD		25	\$4.3	19%
	Climate Research	\$34.0	\$27.6	\$18.1	-2	N/A	12	\$0.0	0%
	Technical Assistance	\$6.0	\$5.5	\$4.3	-2	N/A	19	\$3.0	69%
	Transformative Climate Communities	\$250.0	\$168.3	\$111.7	80	\$1,401	3	\$111.7	100%
California Air Resources Board	Fluorinated Gases Emission Reduction Incentives	\$1.0	NEW PROGRAM FOR FY 2019-20						
	Woodsmoke Reduction	\$8.0	\$4.5	\$3.3	60	\$56	1,124	\$2.8	83%
California Energy Commission	Food Production Investment	\$124.0	\$37.6	\$21.2	533	\$40	10	\$21.2	100%
	Low-Carbon Fuel Production	\$12.5	TBD						
	Renewable Energy for Agriculture	\$10.0	\$9.5	TBD					
California Department of Community Services and Development	Community Solar	\$4.4	\$4.4	\$4.4	18	\$242	2	\$4.4	100%
	Farmworker Housing Single-Family Energy Efficiency and Solar PV	\$10.8	\$10.8	\$0.2	TBD	TBD	1	\$0.2	100%
	Multi-Family Energy Efficiency and Renewables	\$54.4	\$50.6	\$23.5	111	\$212	5,918	\$23.5	100%
	Single-Family Energy Efficiency and Solar Photovoltaics	\$70.3	\$57.1	\$57.1	204	\$280	15,958	\$57.0	100%
	Single-Family Solar Photovoltaics	\$51.0	\$47.6	\$47.6	¹³⁷	\$348	1,800	\$47.6	100%
California Department of Food and Agriculture	Alternative Renewable Fuels	\$3.0	\$3.0	\$3.0	-2	N/A	1	\$0.0	0%
	State Water Efficiency and Enhancement	\$66.0	\$61.3	\$61.3	744	\$82	599	\$22.7	37%
California Department of Water Resources	State Water Project Turbines	\$20.0	\$20.0	\$20.0	37	\$542	2	\$0.0	0%
	Water-Energy Grant	\$50.0	\$44.9	\$33.0	347	\$95	89,697	\$21.6	65%
California Air Resources Board	Prescribed Fire Smoke Monitoring	\$7.5	\$2.3	\$2.3	-2	N/A	31	\$0.0	0%
California Coastal Commission	Coastal Resilience Planning	\$4.5	\$1.0	\$0.8	-2	N/A	5	\$0.3	37%

Administering Agency	Subprogram	Cumulative Funding Status (\$M)			Implemented Projects				
		Allocated	Selected & Awarded ¹	Implemented	GHG Reduction (1,000 MTCO ₂ e)	Cost per GHG (\$/MTCO ₂ e)	Number of Projects	Funds Benefiting Priority Populations	
								(\$M)	%
California Conservation Corps	Training and Workforce Development	\$38.4	\$10.7	\$10.7	9	\$1,259	133	\$7.1	66%
California Department of Fish and Wildlife	Wetlands & Watershed Restoration	\$47.2	\$25.5	\$25.5	796	\$32	15	\$16.0	63%
California Department of Food and Agriculture	Alternative Manure Management	\$278.0	\$30.5	\$30.5	641	\$48	56	\$0.0	0%
	Dairy Digester Research and Development		\$114.5	\$114.5	12,808	\$9	65	\$73.1	64%
	Healthy Soils	\$40.5	\$5.6	\$5.6	46	\$121	103	\$0.0	0%
California Department of Forestry and Fire Protection	Fire Prevention	\$186.8	\$75.5	\$75.5	– ²	N/A	39	\$52.4	69%
	Prescribed Fire	\$59.5	\$2.4	TBD	TBD	TBD	TBD	TBD	TBD
	Fire Prevention Grants	\$559.2	\$113.2	\$79.4	– ²	N/A	142	\$28.0	35%
	Forest Health		\$190.4	\$136.2	5,200	\$26	66	\$52.2	38%
	Urban and Community Forestry	\$67.8	\$56.2	\$52.8	373	\$142	89	\$51.8	98%
	Wildland Urban Interface	\$10.0	NEW PROGRAM FOR FY 2019-20						
California Department of Resources Recycling and Recovery	Food Waste Prevention and Rescue Grants	\$20.7	\$20.7	\$20.7	436	\$47	67	\$19.9	96%
	Organics and Recycling Manufacturing Loans	\$9.2	\$5.7	\$5.7	685	\$8	4	\$0.8	15%
	Organics Grants	\$72.9	\$56.7	\$56.7	1,285	\$44	23	\$47.2	83%
	Recycled Fiber, Plastic, and Glass Grants	\$25.7	\$25.7	\$25.7	671	\$38	11	\$14.7	57%
California Governor's Office of Emergency Services	Fire Engines and Equipment	\$26.1	TBD						
	Wildfire Response and Readiness	\$25.0	\$3.4	\$3.4	– ²	N/A	60	\$0.0	0%
California Natural Resources Agency	Regional Forest and Fire Capacity	\$20.0	\$17.2	TBD					
	Urban Greening	\$156.0	\$98.0	\$98.0	36	\$2,737	62	\$91.5	93%
California State Coastal Conservancy	Climate Ready	\$7.0	\$3.8	\$3.8	1	\$3,287	12	\$3.1	81%
California Wildlife Conservation Board	Climate Adaptation and Conservation Easements	\$20.0	\$0.1	\$0.1	– ²	N/A	1	\$0.0	0%

Administering Agency	Subprogram	Cumulative Funding Status (\$M)			Implemented Projects				
		Allocated	Selected & Awarded ¹	Implemented	GHG Reduction (1,000 MTCO _{2e})	Cost per GHG (\$/MTCO _{2e})	Number of Projects	Funds Benefiting Priority Populations	
								(\$M)	%
San Francisco Bay Conservation and Development Commission	Climate Resilience Planning	\$2.8	\$0.5	TBD	- ²	N/A	TBD	TBD	TBD
California Environmental Protection Agency	Transition to a Carbon-Neutral Economy	\$3.0	NEW PROGRAM FOR FY 2019-20						
California State Water Resources Control Board	Safe Drinking Water	\$100.0	NEW PROGRAM FOR FY 2019-20						
California Workforce Development Board	Low Carbon Economy Workforce	\$35.0	NEW PROGRAM FOR FY 2019-20						
Total		\$10,863.5	\$7,644.9	\$4,271.1	39,075	-	375,999	\$2,593.4	61%

1 Some administering agencies may plan for future projects by selecting projects for funding in advance of receiving appropriations to fulfil those commitments. For this reason, in some instances “Selected & Awarded” funds may exceed “Allocated” funds. The High-Speed Rail Authority does not select or award funds, so this value represents implemented funds to date. The values reported here as “Selected and Awarded” also includes “Implemented” Projects.

2 These programs have no quantified GHG emission benefit.

3 Estimated GHG emission reductions from the California High-Speed Rail project range from 64.3 to 75.9 million MTCO_{2e} over its first 50 years of operating life, as detailed in the 2018 California High-Speed Rail Sustainability Report available at www.hsr.ca.gov/docs/programs/green_practices/sustainability/Sustainability_Report_2018.pdf.

4 GGRF funds provide a critical part of the total funds for the system, though it is difficult to estimate precisely what the ultimate GGRF investment will be, and consequently, a comparable “GGRF investment per ton of GHG reduced” metric.

