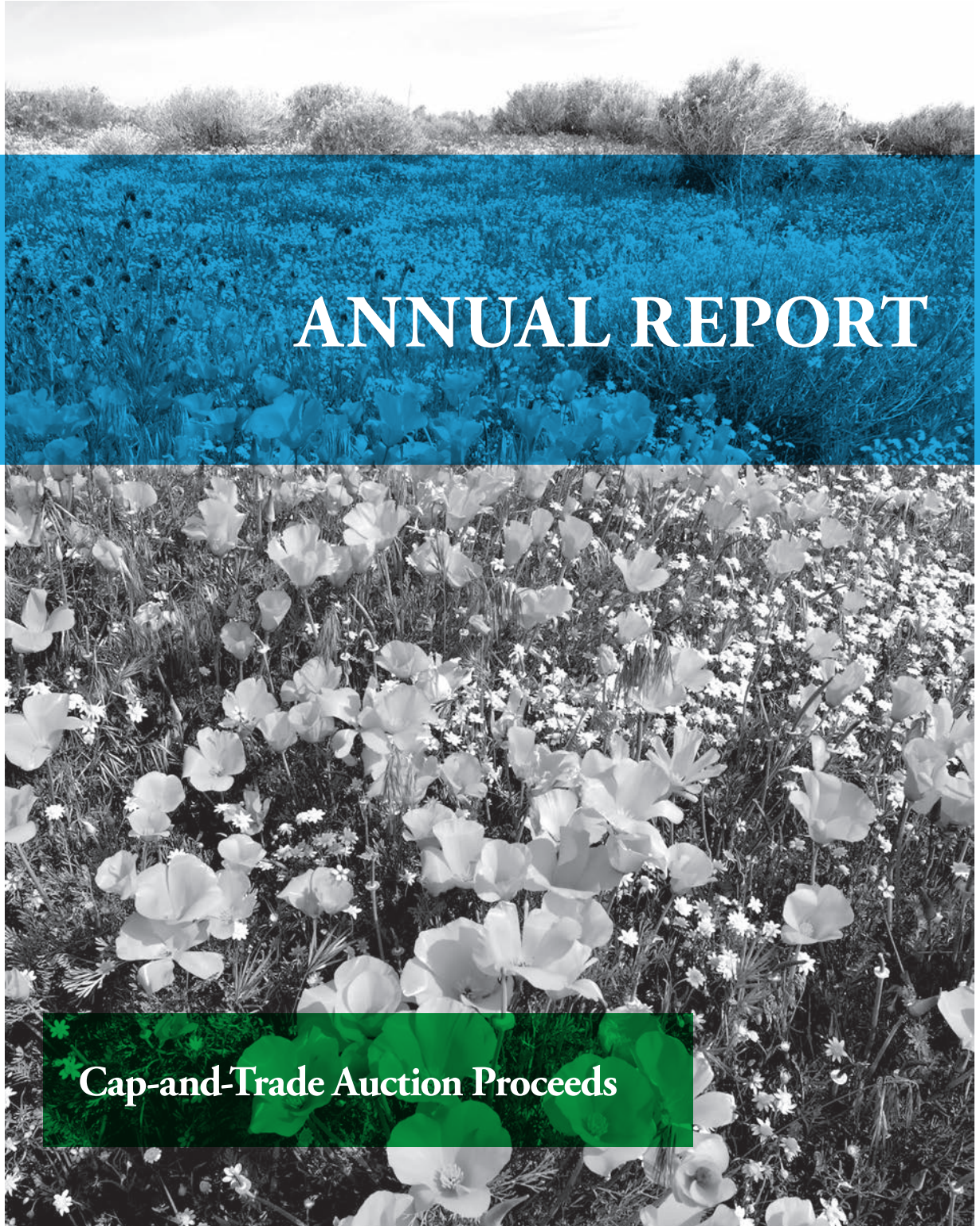
2016

CALIFORNIA CLIMATE INVESTMENTS



ANNUAL REPORT

Cap-and-Trade Auction Proceeds

Program Webpage

For more information on this topic and upcoming meetings,
please see the program website for Administration activities at:
www.arb.ca.gov/auctionproceeds.

Document Availability

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ANNUAL REPORT TO THE LEGISLATURE ON

California Climate Investments Using Cap-and-Trade Auction Proceeds

GREENHOUSE GAS REDUCTION FUND MONIES

March 2016

CONTENTS

Executive Summary **1**

Background **12**

Cap-and-Trade: Source of Auction Proceeds 13
Implementing Legislation for the Expenditure of Auction Proceeds 14
Budget Appropriations 15
Public Access to Information 16
Cap-and-Trade Auction Proceeds Investment Plan 17

Funding Guidance for California Climate Investments **17**

Funding Guidelines for Agencies that Administer California Climate Investments 18
Guidance for Investments to Benefit Disadvantaged Communities 20
Quantification Methodologies 21
Quantifying GHG Reductions 21

Implementing California Climate Investments **22**

Status of Programs 22
Demand for California Climate Investments 23
Greenhouse Gas Emissions Reductions 24
Benefits to Disadvantaged Communities 25
Outreach and Public Process 28
Sustainable Communities & Clean Transportation 30
Natural Resources & Waste Diversion 30
Energy Efficiency & Clean Energy 30

Investments in Sustainable Communities and Clean Transportation **31**

Investments in Energy Efficiency and Clean Energy **54**

Investments in Natural Resources and Waste Diversion **67**

Appendix A: List of Funded Projects **80**

Appendix B: GGRF Budgetary Expenditures **105**

Appendix C: Statistics on Competitive Project Proposals Received, FY 2014-15 and 2015-16 **107**

Appendix D: Leveraged Funds for Awarded Projects FY 2013-14 through 2015-16 **109**

Appendix E: List of Public Meetings Held **112**

Tables

Table ES-1: Appropriations for California Climate Investments FY 2013-14 through 2015-16 2
Table ES-2: Summary of California Climate Investments and Outcomes through 2015 8

Figures

Figure ES-1: Funding Flow 3
Figure ES-2: Summary of Funding Status 4
Figure ES-3: GHG Reductions Anticipated as a Result of Investments through 2015 5
Figure ES-4: Investments Benefiting Disadvantaged Communities through 2015 6
Figure 1: 1990 California Greenhouse Gas Emissions by Sector 12
Figure 2: California Greenhouse Gas Emissions and Reduction Goals 13
Figure 3: Proceeds from the Sale of State-Owned Allowances Deposited in the GGRF 14
Figure 4: Funding Guidelines for Agencies that Administer California Climate Investments by Volume and Subject 18
Figure 5: Administrative Process for Implementing California Climate Investments 19
Figure 6: Funding Minimums for Disadvantaged Community Benefits 20
Figure 7: Terms for California Climate Investments FY 2013-14 through 2015-16 23
Figure 8: Anticipated Greenhouse Gas Reductions from California Climate Investments Awarded through 2015 24
Figure 9: Timeframes for Estimated Greenhouse Gas Reductions Resulting from California Climate Investments, 2015-2095 25
Figure 10: Implemented Funding to Benefit Disadvantaged Communities through 2015 26
Figure 11: Disadvantaged Community Census Tracts with Projects Funded by California Climate Investments through 2015 27
Figure 12: California Climate Investments Public Outreach Events by Location, 2014-2015 29
Figure 13: High Speed Rail Authority and Transit and Intercity Rail Capital Project Locations 35
Figure 14: Low Carbon Transit Operations Program Project Locations 37
Figure 15: Affordable Housing and Sustainable Communities and Sustainable Agriculture Lands Conservation Project Locations 40
Figure 16: Clean Vehicle Rebate Project Locations 50
Figure 17: Hybrid Zero-Emission Truck and Bus Voucher Incentive Project Locations 51
Figure 18: Enhanced Fleet Modernization Plus-Up Project Locations 52
Figure 19: Car Sharing and Public Fleet Pilot Project Locations
Figure 20: Energy Efficiency and Solar Water Heating Project Locations 58
Figure 21: Solar Photovoltaics Project Locations 59
Figure 22: Dairy Digester Research and Development Program and State Water Efficiency and Enhancement Program Project Locations 63
Figure 23: Water Energy Grant Program and Turbines Project Locations 66
Figure 24: Wetlands and Watershed Restoration Project Locations 70
Figure 25: Sustainable Forest Project Locations 74
Figure 26. Waste Diversion Project Locations 78

EXECUTIVE SUMMARY

Proceeds from the Cap-and-Trade program facilitate comprehensive and coordinated investments throughout California that further the State's climate goals. These California Climate Investments support programs and projects that reduce greenhouse gas (GHG) emissions in the State and also deliver major economic, environmental, and public health benefits for Californians, including meaningful benefits to the most disadvantaged communities. Disadvantaged communities where investments occur are realizing a multitude of benefits; these include: increased affordable housing opportunities, reduced transit and transportation costs, access to cleaner vehicles, improved mobility options and air quality, job creation, energy and water savings, and greener and more vibrant communities.

The State's portion of the Cap-and-Trade auction proceeds are deposited in the Greenhouse Gas Reduction Fund (GGRF), and used to further the objectives of the California Global Warming Solutions Act of 2006 (Assembly Bill 32 (AB 32); Núñez, Chapter 488, Statutes of 2006). Between March 2014 and December 2015, over $2.6 billion has been appropriated to State agencies to implement GHG emission reduction programs, projects, and activities. In just under two years, these agencies developed and began implementing a suite of programs and activities in the areas of sustainable communities and clean transportation, clean energy and energy efficiency, and natural resources and waste diversion. With over 2,500 projects in progress or completed, and 63,000 rebates or vouchers provided, near- and long-term benefits to the State are underway.

Purpose of Report

Assembly Bill 1532 (Pérez, Chapter 807, Statutes of 2012) requires the Department of Finance (Finance) to submit an annual report to the Legislature on the status and outcomes of projects funded from the GGRF. This 2016 Annual Report describes the status of funded programs and lists the projects funded. It also provides estimates of the GHG reductions expected from project investments and provides key statistics on benefits to disadvantaged communities, demand for funding, and leveraging. The report provides fiscal data as of November 1, 2015, and program accomplishments through December 2015, unless otherwise stated.

CALIFORNIA CLIMATE INVESTMENTS

$2.6 billion appropriated to agencies

$1.7 billion awarded to projects

$912 million in projects implemented

Over 2,500 projects implemented and over 63,000 rebates and vouchers issued.

This report also lists and describes each individual project funded by the GGRF in Appendix A. Later in March, additional project level data for each of these projects will be made available on the program website, including the specific project location, GHG reductions, and benefits to disadvantaged communities. The information will be available in a downloadable format to support independent analyses and displayed on an interactive map.

Appropriations

Funds are allocated to State Agencies through the annual Budget Act and continuous appropriations enacted in Chapter 36, Statutes of 2014 (SB 862). The first appropriations in Fiscal Year (FY) 2013-14 provided over $70 million. Subsequent appropriations in FY 2014-15 included over $860 million, and set in motion a significant expansion of existing programs that provide GHG emission reductions and further the purposes of AB 32. In FY 2015-16, the Legislature and Governor appropriated almost $1.7 billion, which provided funding to continue some of the programs established in the previous fiscal years. The Governor's January Budget for FY 2016-17 proposed $3.1 billion in funding from the GGRF, which includes FY 2015-16 funds that were not previously appropriated. The Governor's January Budget for FY 2016-17 is available at www.ebudget.ca.gov/2016-17/pdf/BudgetSummary/EnvironmentalProtection.pdf.

Table 1 shows the appropriations for investment in projects as of December 2015.

Table ES-1: Appropriations for California Climate Investments FY 2013-14 through 2015-16

Administering Agency	Program	FY Appropriation ($M)			Total ($M)
		2013-14	2014-15	2015-16	
CALIFORNIA High-Speed Rail Authority	High Speed Rail Project	$0	$250	$600	$850[1]
CalSTA CALIFORNIA STATE TRANSPORTATION AGENCY	Transit and Intercity Rail Capital Program (TIRCP)	$0	$25	$240	$265
Caltrans	Low Carbon Transit Operations Program (LCTOP)	$0	$25	$120	$145
California Strategic Growth Council	Affordable Housing and Sustainable Communities (AHSC)	$0	$130	$480	$610
California Environmental Protection Agency Air Resources Board	Low Carbon Transportation (LCT)	$30	$200	$95	$325
CSD	Low-Income Weatherization Program (LIWP)	$0	$75	$79	$154
Pending[2]	Energy Efficiency for Public Buildings	$0	$20	$0	$20
cdfa CALIFORNIA DEPARTMENT OF FOOD & AGRICULTURE	Climate Smart Agriculture	$10	$25	$40	$75
DEPARTMENT OF WATER RESOURCES STATE OF CALIFORNIA	Water Energy Efficiency	$30	$20	$20	$70
CALIFORNIA FISH & GAME	Wetlands and Watershed Restoration	$0	$25	$2	$27
CAL FIRE	Sustainable Forests	$0	$42	$0	$42
CalRecycle	Waste Diversion	$0	$25	$6	$31
Total Appropriations		**$70**	**$862**	**$1,682**	**$2,614**

1 In addition to the $850M for HSR in the table, SB 862 states that $400 million shall be available to the High Speed Rail Authority beginning in FY 2015-16, as repayment of a loan to the General Fund. This money shall be repaid as necessary, based on the financial needs of the High Speed Rail Project.

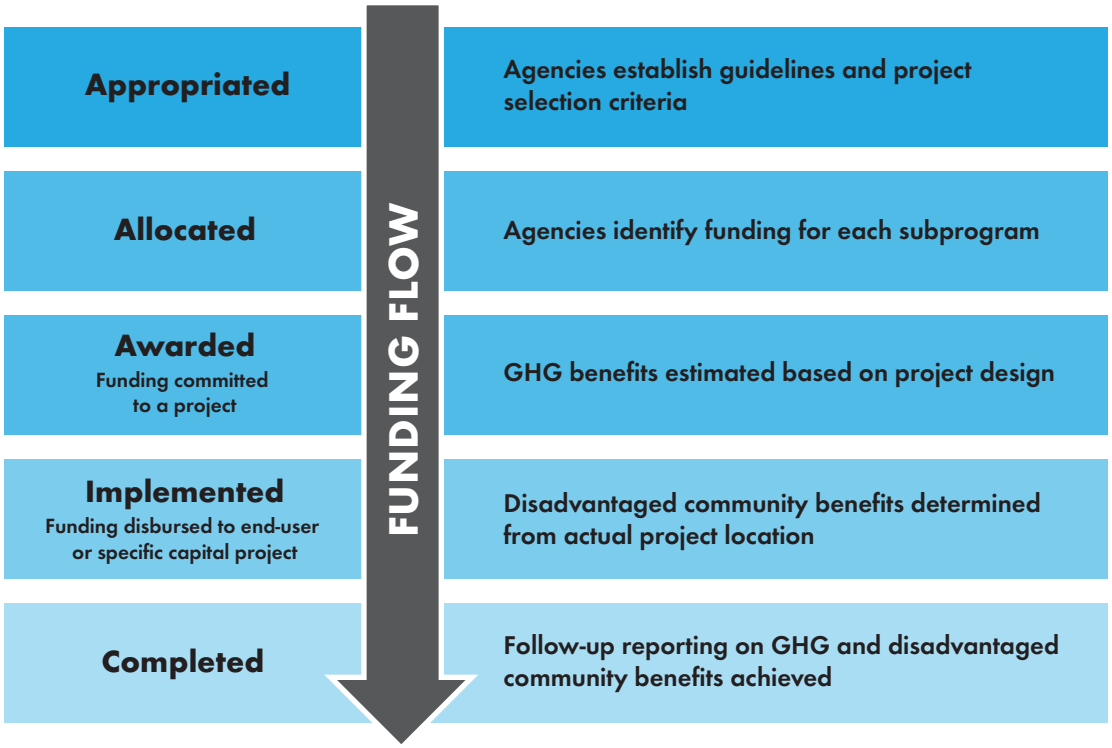
2 Although funding for public buildings was initially appropriated to the California Energy Commission, the Administration has proposed in the FY 2016-17 Budget to have Department of General Services administer this program. The California Energy Commission did not receive any GGRF funding in FY 2014-15 or 2015-16.

Reporting on Outcomes

California Climate Investments fund a broad portfolio of activities, with 12 administering agencies and over fifty eligible project types. Within these programs, funding typically flows through the State Budget to administering agencies that ultimately distribute funds to individual consumers and end-users throughout California. To provide for consistent data reporting among this mix of programs and projects, and identify where in the process agencies are in distributing funds, this report uses the terms "Allocated," "Awarded," and "Implemented" funding. These terms are used throughout this report, and further described in Figure 7 in Chapter III.

For this report, the administering agencies supplied data on statutorily identified outcomes, which include funding status, GHG reductions, disadvantaged community benefits, co-benefits, and other information. To uniformly present data on these outcomes across the 12 agencies, each outcome is associated with either "Awarded" or "Implemented" funding.

Figure ES-1: Funding Flow

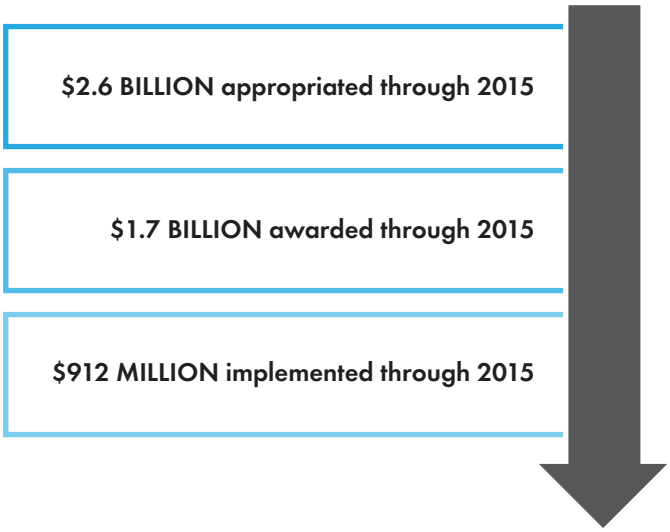


Because the specific location of a project is not needed to quantify the expected GHG reductions of a project, this report includes GHG reduction estimates for "Awarded" funds. Once an agency identifies the specific location of a project, the agency can determine whether or not the project is located in, or benefits, a disadvantaged community. This report refers to "Implemented" funding when an agency has distributed funding to end-users or committed funding to specific capital or equipment project and has determined the geographic location of the project. Information on completed projects will be included in future reports, once agencies have collected and reported on the achieved benefits of the awarded and implemented investments.

Accomplishments and Outcomes

Since the 2015 Annual Report, administering agencies have made significant progress in the development and implementation of their respective California Climate Investment programs. Significant accomplishments in 2015 include: an increase in the number and scale of awarded and implemented projects that reduce GHG emissions; considerable progress toward directing investments and maximizing benefits to disadvantaged communities; and expanded public engagement across the State.

Figure ES-2: Summary of Funding Status



Administering agencies with remaining FY 2014-15 funds continue to award funds and implement projects using those monies. Agencies that received 2015-16 appropriations are also moving forward to expand existing programs or fund new project types.

Administering agencies are experiencing a high demand for project funding. Many projects are also highly leveraged, which extends the reach of State funds, generating additional GHG reductions, disadvantaged community benefits, and co-benefits for California.

Demand for Investments through 2015

Exceeds Availability of Funds

- All competitive programs oversubscribed
- Demand $2-9 requested per dollar available

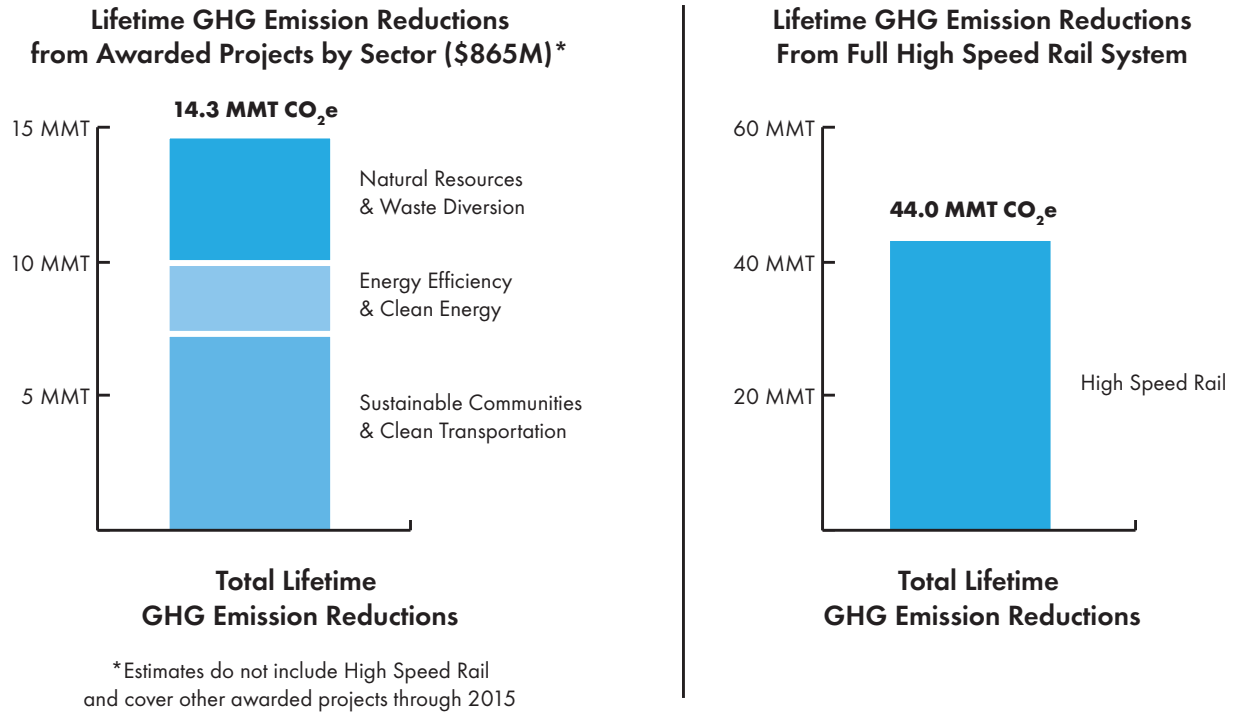
Projects are Highly Leveraged

- Over $5.7 billion in leveraged funds with $1.7 billion in GGRF monies

Greenhouse Gas Reductions

Over their lifetime, the awarded projects are expected to reduce GHG emissions by over 14 million metric tons of carbon dioxide equivalent ($MTCO_2e$), based on methodologies developed specifically to quantify the GHG impacts of these investments. In addition, the High Speed Rail Project, is expected to reduce GHG emissions by 44 million $MTCO_2e$ over its operating life.[3] This report includes the estimated GHG reductions from the complete High Speed Rail system, but does not attribute these total system reductions to a particular fiscal year's appropriation.

Figure ES-3: GHG Reductions Anticipated as a Result of Investments through 2015

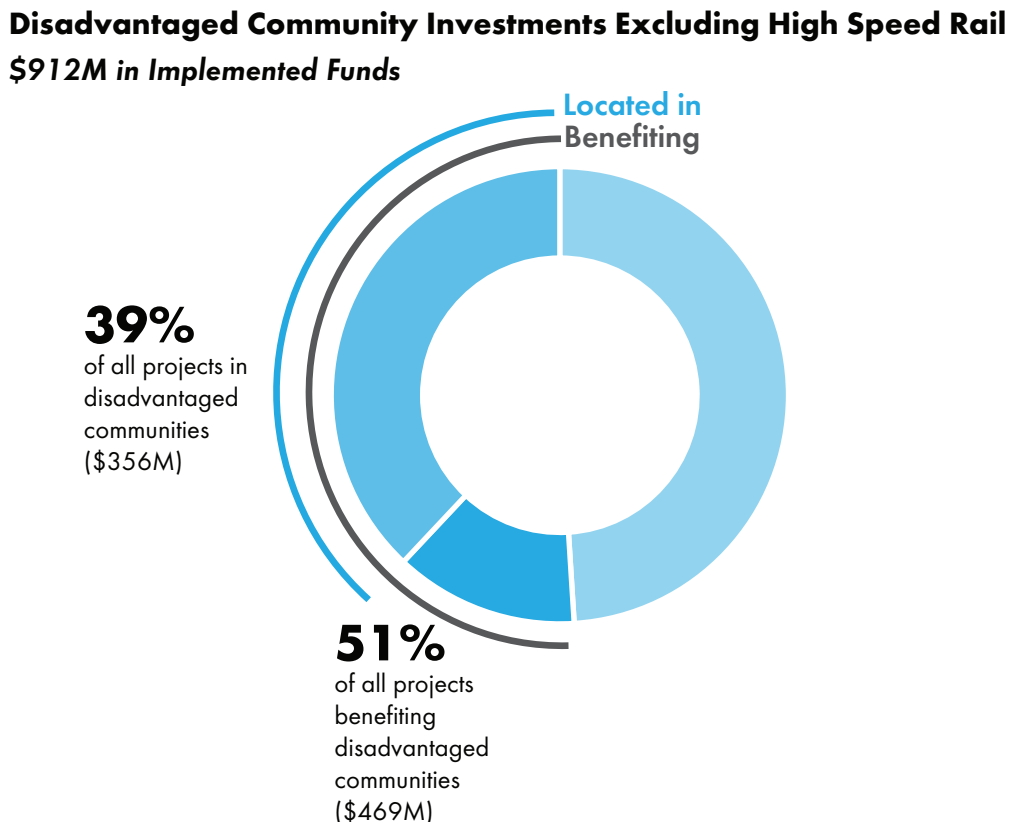


3 The HSRA's GHG reduction estimates are based on the June 2013 assessment, Contribution of the High-Speed Rail Program to Reducing California's Greenhouse Gas Emission Levels. The HSRA is in the process of updating the Draft 2016 Business Plan, which may change the GHG reduction estimates for this project.

Disadvantaged Community Benefits

These investments provide benefits to the State's most disadvantaged communities, including low-income residents of these communities. SB 535 requires that a minimum of 25 percent of California Climate Investments are allocated to projects that provide benefits to disadvantaged communities, and a minimum of 10 percent are allocated to projects located within and providing benefits to disadvantaged communities.

Figure ES-4: Investments Benefiting Disadvantaged Communities through 2015



The State is investing in projects that are bringing a number of benefits to California's disadvantaged communities and low-income residents. For example, CALFIRE's urban forestry program is planting trees in disadvantaged communities throughout the State, providing community shading and reducing energy demand while improving active transportation and recreational opportunities for these residents. Caltrans' Low Carbon Transit Operations Program is supporting new and expanded services and facilities that improve mobility for disadvantaged communities and low-income residents in these communities. The Department of Community Services and Development's (CSD) Low-Income Weatherization Program is helping low-income residents in disadvantaged communities reduce their energy use and energy costs.

The current appropriations will easily meet and exceed the SB 535 disadvantaged community targets without including High Speed Rail. However, the High Speed Rail Project is expected to greatly benefit disadvantaged communities throughout the State by creating thousands of direct construction-related jobs as well as indirect jobs and related economic development benefits in communities of the Central Valley, which has some of the highest unemployment rates in the country. As of November 2015, the project has employed over 200 craft labor workers in the Central Valley, many from businesses located in disadvantaged communities, and contracted with 100 small businesses located within disadvantaged communities. Long term, connecting the Silicon Valley to the Central Valley as the project's first operating segment offers the potential to economically transform the Central Valley's disadvantaged communities.

Co-Benefits

In addition to disadvantaged community benefits, these funds are also providing co-benefits that further the State's climate goals. Examples include forest health projects that are reducing the risk of catastrophic wildfires and transit projects that are improving access and mobility. Co-benefits of programs include the quantifiable, like improved air quality, increased

bus trips, and reduced water use, as well as more qualitative, like increased social cohesion and improved ecosystem function. All are critical to maintain the vibrancy of California and help residents and communities alike. Many of the co-benefits these investments provide also support the Governor's climate change pillars, which include achieving the following by 2030: 50 percent renewable electricity; 50 percent reduction in petroleum use in vehicles; double energy efficiency savings in existing buildings; carbon sequestration in the land base; and a reduction in short-lived climate pollutants. The co-benefits from each project type are qualitatively described in the body of the report.

ARB is responsible for developing guidance on quantifying and reporting the outcomes from project investments. For the initial years, ARB focused on developing quantification and reporting methods for GHG reductions. In upcoming years, ARB will be working with the administering agencies, academics and other external experts to develop additional guidance for quantifying and reporting on the co-benefits of GGRF investments.

Coordination and Outreach

The broad mix of programs and projects funded by the GGRF makes interagency coordination important for consistent program design and implementation, tracking, and reporting of project outcomes. In 2015, the Administration, developed the Second Investment Plan for Fiscal Years 2016-17 through 2018-19 to identify potential State investment priorities. Also in 2015, ARB developed the *Funding Guidelines for Agencies that Administer California Climate Investments* to provide guidance for consistent and transparent implementation among administering agencies. ARB also worked with these agencies to develop over 50 different quantification methods for accurately and consistently quantifying GHG reductions for these investments. In addition, the agencies held over 300 public meetings, with 16,000 participants, to seek input on program development and implementation.

Coordinated Administration Activities through 2015

- Over 300 public meetings with over 16,000 participants
- Second Investment Plan completed
- Overarching Funding Guidelines completed
- GHG quantification methods developed for over 50 project types

Conclusion

These early California Climate Investments are just the beginning of a suite of activities that will continue California's leadership on climate, adaptation, and sustainability. While advancing the State's broader climate strategy, these investments also support other important policy objectives. These investments not only provide GHG emission reductions, but also provide overall societal benefits. As new funding is appropriated, and additional projects are awarded and implemented, we continue to improve the lives and surrounding environment of California residents, especially those who are the most disadvantaged by economic and environmental conditions.

For More Information on California Climate Investments:

- Visit the Cap-and-Trade Auction Proceeds website with links to administering agency programs: www.arb.ca.gov/auctionproceeds
- Contact us via email: GGRFProgram@arb.ca.gov
- For maps of disadvantaged communities and information on how the California Environmental Protection Agency identified these communities, please visit: www.calepa.ca.gov/EnvJustice/GHGInvest/
- To learn more about priority investments that will help California achieve its GHG reduction goals while providing additional health, economic, and environmental benefits, please visit: www.arb.ca.gov/investmentplan
- To learn more about guidance for agencies that administer California Climate Investments, including reporting, quantification methods, and maximizing benefits to disadvantaged communities, please visit: www.arb.ca.gov/ccifundingguidelines
- To learn more about ARB's quantification methods, please visit: www.arb.ca.gov/cc/capandtrade/auctionproceeds/quantification.htm
- To receive electronic notices of meetings and materials, you can sign up for the Auction Proceeds list-serve at: www.arb.ca.gov/listserv/listserv_ind.php?listname=auctionproceeds

Table ES-2: Summary of California Climate Investments and Outcomes through 2015

APPROPRIATIONS			AWARDED PROJECTS			IMPLEMENTED PROJECTS							
Administering Agency	Total Dollars Appropriated ($M)	Program	Total Projects	Total Dollars ($M)	Estimated Lifetime GHG Reductions from Awarded Projects (1,000 Metric Tons CO_2e)[1]	Total Projects	Total Dollars ($M)	Implemented Funds to Benefit Disadvantaged Communities					
								Benefiting			Subtotal Located In		
								#	($M)	%	#	($M)	%
High Speed Rail Authority	$850	High Speed Rail Project[2]	1	$850.0	See footnote 2 for total project benefits	1	$259.0	--[2]	--[2]	--[2]	--[2]	--[2]	--[2]
California State Transportation Agency	$265	Transit and Intercity Rail Capital Program	14	$224.3	865	14	$224.3	13	$213.3	95%	12	$188.9	84%
Department of Transportation	$145	Low Carbon Transit Operations Program	95	$24.2	N/A[3]	95	$24.2	68	$22.6	93%	53	$16.7	69%
Strategic Growth Council	$610	Affordable Housing and Sustainable Communities	33	$154.4	810	33	$154.4	27	$117.1	76%	22	$85.4	55%
		Sustainable Agricultural Lands Conservation	11	$4.2	71	11	$4.2	1	$0.4	10%	1	$0.4	10%
Air Resources Board	$325	Clean Vehicle Rebate Project	93,000	$204.5	4,470	62,327	$136.0	23,624	$50.5	37%	3,957	$8.4	6%
		Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project	560	$19.9	44	404	$11.0	300	$7.2	65%	213	$5.0	45%
		Enhanced Fleet Modernization Program Plus-Up	2,900	$12.0	29	265	$1.0	265	$1.0	100%	198	$0.7	70%

APPROPRIATIONS			AWARDED PROJECTS			IMPLEMENTED PROJECTS							
Administering Agency	Total Dollars Appropriated ($M)	Program	Total Projects	Total Dollars ($M)	Estimated Lifetime GHG Reductions from Awarded Projects (1,000 Metric Tons CO_2e)[1]	Total Projects	Total Dollars ($M)	Implemented Funds to Benefit Disadvantaged Communities					
								Benefiting			Subtotal Located In		
								#	($M)	%	#	($M)	%
Air Resources Board (continued)	$325	Car Sharing and Mobility Options Pilot	2	$2.0	TBD	2	$2.0	2	$2.0	100%	2	$2.0	100%
		Public Fleets Increased Incentives Pilot	NA	$2.9	4	172	$1.3	172	$1.3	100%	61	$0.5	38%
		Financing Assistance Pilot Project	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
		Zero Emission Truck and Bus Pilot Projects	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
		Advanced Technology Freight Demonstration Projects: Multi-Source Facility Projects	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
		Advanced Technology Freight Demonstration Projects: Drayage Trucks	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Department of Community Services and Development	$154	Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating[4]	18,000	$24.0	50 – 120	1,543	$1.1	1,543	$1.1	100%	1,543	$1.1	100%
		Single-Family Solar Photovoltaics[4]	2,000	$22.3	88 -125	582	$6.3	582	$6.3	100%	582	$6.3	100%
		Large Multi-Family Energy Efficiency and Renewables[4]	5,000	$24.0	45-90	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Pending[5]	$20	Energy Efficiency: Public Buildings	0	$0.0	0	0	$0.0	0	$0.0	0$	0	$0.0	0%

APPROPRIATIONS			AWARDED PROJECTS			IMPLEMENTED PROJECTS							
Administering Agency	Total Dollars Appropriated ($M)	Program	Total Projects	Total Dollars ($M)	Estimated Lifetime GHG Reductions from Awarded Projects (1,000 Metric Tons CO_2e)[1]	Total Projects	Total Dollars ($M)	Implemented Funds to Benefit Disadvantaged Communities					
								Benefiting			Subtotal Located In		
								#	($M)	%	#	($M)	%
California Department of Food and Agriculture	$75	Dairy Digester Research and Development Program	5	$11.1	1,377	5	$11.1	5	$11.1	100%	5	$11.1	100%
		State Water Efficiency and Enhancement Program	233	$18.1	552	233	$18.1	86	$7.3	40%	86	$7.3	40%
		Biofuels[6]	0	$0	0	0	$0	0	$0	0%	0	$0	0%
Department of Water Resources	$70	Water-Energy Grant Program	21	$27.8	197	0	$0.0	TBD	TBD	TBD	TBD	TBD	TBD
		Turbines[7]	2	$20	TBD	2	$3.5	0	$0.0	0%	0	$0.0	0%
Department of Fish and Wildlife	$27	Sacramento-San Joaquin Delta and Coastal Wetlands Restoration	4	$15.4	519	4	$15.4	2	$13.4	87%	2	$13.4	87%
		Mountain Meadow Ecosystems Restoration	8	$5.9	52	8	$5.9	0	$0.0	0%	0%	$0.0	0.0%
Department of Forestry and Fire Protection (CALFIRE)	$42	Forest Health Program	27	$7.7	2,046	27	$7.7	0	$0.0	0%	0%	$0.0	0.0%
		Forest Legacy Program	4	$4.0	387	4	$4.0	0	$0.0	0%	0%	$0.0	0.0%
		Urban and Community Forestry Program[8]	29	$15.6	134	0	$0.0	TBD	TBD	TBD	TBD	TBD	TBD
Department of Resources Recycling and Recovery (CalRecycle)	$31	Organics Composting/ Digestion Grants	5	$14.5	1,658	5	$14.5	5	$14.5	100%	3	$8.9	61%
		Recycling Manufacturing	3	$5.0	323	3	$5.0	TBD	TBD	TBD	TBD	TBD	TBD
		Organics and Recycling Project Loans	2	$1.7	470	2	$1.7	TBD	TBD	TBD	TBD	TBD	TBD
	$2,614	**TOTAL:**	**119,059**	**$1,715.5**	**14,196 - 14,343 (plus HSR)**	**65,742**	**$911.7**	**26,695**	**$469.1**	**51%**	**6,740**	**$356.1**	**39%**

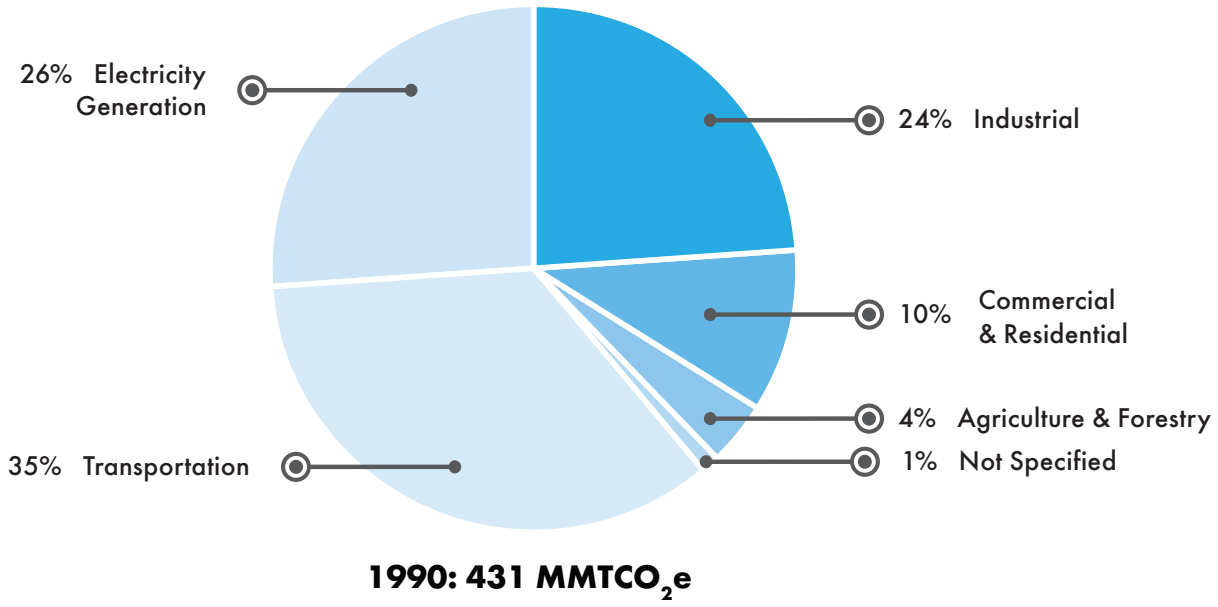
1. GHG estimates are based on ARB's quantification methodology.
2. The High Speed Rail Project is expected to reduce GHG emissions by 44 million $MTCO_2e$ over its operating life. This report includes the estimated GHG reductions from the complete High Speed Rail System, but does not attribute these total system reductions to a particular fiscal year. The HSRA's GHG reduction estimates are based on the June 2013 assessment, Contribution of the High-Speed Rail Program to Reducing California's Greenhouse Gas Emission Levels. The HSRA is in the process of updating the Draft 2016 Business Plan, which may change the GHG reduction estimates for this project. The current appropriations will easily exceed the SB 535 disadvantaged community targets without including High Speed Rail. However, High Speed Rail Project is expected to greatly benefit disadvantaged communities by creating thousands of direct construction-related jobs in Central Valley communities, which have some of the highest unemployment rates in the country. Over time, the project will lead to permanent operations, maintenance, and manufacturing jobs. As of November 2015, the project has employed over 200 craft labor workers in the Central Valley and contracted with 100 small businesses located within disadvantaged communities. The project has created a pipeline for workers from disadvantaged communities to apprentice in the construction trades. In addition, connecting the Silicon Valley to the Central Valley offers the potential to transform the Central Valley's disadvantaged communities by opening up new job markets for people living in the Central Valley, creating linkages between higher education institutions in the Central Valley and high-tech industries in the Silicon Valley, and incentivizing high-tech companies to locate certain functions in the Central Valley where commercial real estate is less expensive.
3. For FY 2014-15, as an interim guide to comply with the GHG reduction requirement, Caltrans, in consultation with ARB, developed and used a list of eligible projects determined to meet the statutory requirements of SB 862 for distribution of funds, and did not quantify GHG emission reductions at the project scale. For FY 2015-16, ARB and Caltrans developed a quantification methodology to estimate GHG emission reductions prior to project implementation.
4. All programs administered by CSD are expected to award 100% of direct project funds within disadvantaged communities. The total direct project funding amounts and percentage of disadvantaged community benefits will be confirmed once the direct project funds are implemented and the specific project locations are identified.
5. Although funding for public buildings was initially appropriated to the California Energy Commission, the Administration has proposed in the FY 2016-17 Budget to have Department of GeneralServices administer this program. The California Energy Commission did not receive any GGRF funding in FY 2014-15 or 2015-16.
6. CDFA's Alternative and Renewable Fuels Program was an in-house research program designed to review adopt and develop standards and specifications for low carbon renewable and zero-emission biofuels derived from agricultural waste. CDFA used GGRF monies for staffing and equipment to support the standards development, and testing, to increase the usage of renewable transportation fuels, displace petroleum based transportation fuels, and reduce GHG emissions.
7. ARB and DWR are working to finalize quantification of GHG reductions for the turbine projects and will include project-level data in the supplemental material to be posted online.
8. CalFIRE's Urban and Community Forestry Program is expected to award 100% of funds to benefit disadvantaged communities. The total funding amounts and percentage of disadvantaged community benefits will be calculated once the funds are implemented and the specific project locations are identified.

BACKGROUND

In 2006, the Legislature passed and the Governor signed AB 32, which created a comprehensive, multi-year program to reduce GHG emissions in California. AB 32 requires California to reduce GHGs to 1990 levels by 2020, and to maintain and continue reductions beyond 2020. ARB is responsible for identifying the 1990 emissions level to serve as the emissions limit and preparing an overall plan to meet California's GHG reduction goals ("Scoping Plan").

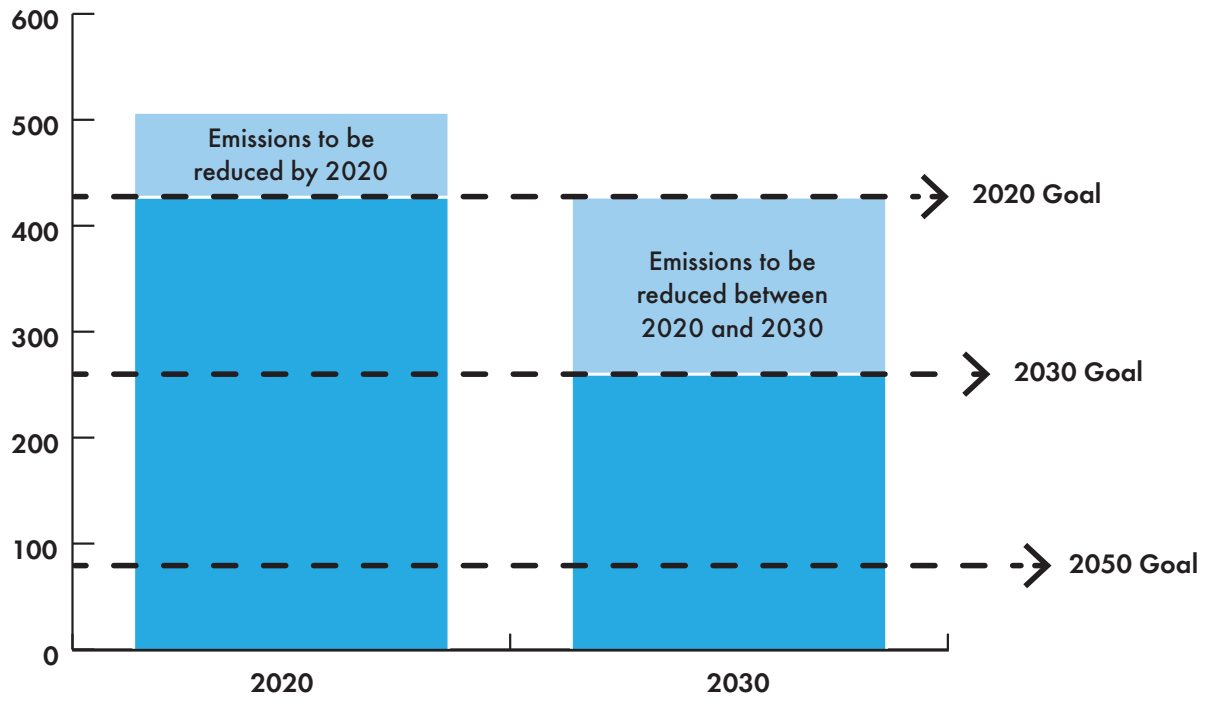
According to ARB's emission inventory, shown in Figure 1, 1990 emission levels were equal to 431 million $MTCO_2e$.

Figure 1: 1990 California Greenhouse Gas Emissions by Sector



Significant investments from several sources of both public and private entities are needed to support the transformative technologies that are essential to reach both the 2030 and 2050 goals, depicted in Figure 2.

Figure 2: California Greenhouse Gas Emissions and Reduction Goals



Cap-and-Trade: Source of Auction Proceeds

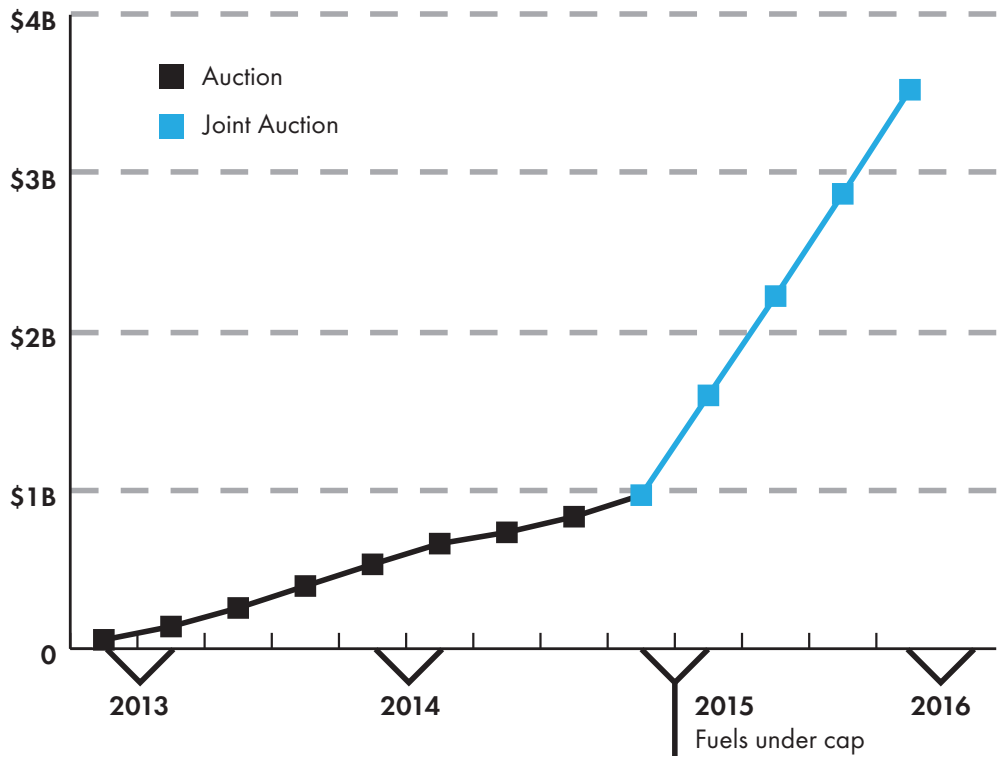
The Cap-and-Trade Program is a key element of California's GHG emission reduction strategy. The Program creates a limit on the emissions from sources responsible for 85 percent of California's GHG emissions, establishes the price signal needed to drive long-term investment in cleaner fuels and more efficient energy use, and provides covered entities the flexibility to implement the lowest-cost options to reduce emissions. In addition to reducing GHG emissions, the Program also complements and supports California's existing efforts to reduce criteria and toxic air pollutants.

In the Cap-and-Trade Program, ARB places a limit, or cap, on GHG emissions by issuing a limited number of tradable permits, or allowances, equal to the cap. A portion of the allowances are distributed for free, a portion placed in a cost-containment reserve, and the remainder auctioned. ARB conducts quarterly auctions where California State-owned and Québec-provincial-owned allowances, as well as allowances consigned by electrical distribution utilities, can be purchased. Proceeds for the consigned allowances are used to further the purpose of AB 32 and benefit ratepayers. The funds raised by the sale of California State-owned allowances are deposited into the GGRF and are available for appropriation.

Each year, the cap is lowered and the number of allowances declines in proportion to achieve the intended emission reductions. The cap is enforced by requiring each source that operates under the cap to turn in one allowance or offset credit for every $MTCO_2e$ emissions that it produces. Businesses that aggressively reduce their emissions can trade or sell their surplus allowances to firms that find it more expensive to reduce their emissions.

Beginning in 2013, the cap included GHG emissions from electricity and large industrial sources. Transportation fuels, and residential and commercial use of natural gas and propane, were included in the cap starting in 2015. The first Cap-and-Trade auction was held on November 14, 2012, and subsequent auctions have been conducted quarterly. The latest auction was held on February 17, 2016. Additional information is available at: www.arb.ca.gov/auction.

Figure 3: Proceeds from the Sale of State-Owned Allowances Deposited in the GGRF (as of December 31, 2015)



Implementing Legislation for the Expenditure of Auction Proceeds

In 2012, the Legislature passed and Governor Brown signed into law three bills– AB 1532, SB 535 (De León, Chapter 830), and SB 1018 (Budget and Fiscal Review Committee, Chapter 39)–that establish the GGRF to receive proceeds from the distribution of State allowances via auction and provide the framework for how those auction proceeds will be appropriated and expended.

These statutes require that the State portion of the proceeds from the auction of allowances under the Cap-and-Trade Program be deposited to the GGRF and used to facilitate the achievement of GHG emission reductions, benefit disadvantaged communities, and, where applicable and to the extent feasible, further additional goals of AB 32 and the Legislature. Additionally, expenditures must comply with the requirements contained in Senate Bill 862 (SB 862; Chapter 836, Statutes of 2014), the trailer bill that provides continuous appropriations of GGRF monies for High Speed Rail, affordable housing and sustainable communities, transit capital, and transit operations beginning in FY 2014-15.

1. **AB 1532 Goals and Requirements**

   AB 1532 establishes several goals for the investment of auction proceeds:
   - Reduce GHG emissions;
   - Maximize economic, environmental, and public health benefits to the State;
   - Foster job creation by promoting in-State GHG emission reduction projects carried out by California workers and businesses;
   - Complement efforts to improve air quality;
   - Direct investment toward the most disadvantaged communities and households in the State;
   - Provide opportunities for businesses, public agencies, nonprofits, and other community institutions to participate in and benefit from statewide efforts to reduce GHG emissions; and
   - Lessen the impacts and effects of climate change on the State's communities, economy, and environment.

AB 1532 also establishes a two-step process for allocating funding to State agencies.

- **Three-Year Investment Plan:** The Administration, led by the Department of Finance, in consultation with ARB and other State agencies, must develop and submit to the Legislature a three-year Investment Plan for auction proceeds. The Investment Plan identifies GHG reduction goals and targets; analyzes gaps in current State strategies for meeting GHG reduction goals; and describes priority investments that facilitate GHG reductions in the areas of sustainable communities and clean transportation; energy efficiency and clean energy; and natural resources and waste diversion.
- **Annual Expenditure Plan (State Budget):** The Governor and State Legislature appropriate funding to State agencies through the annual Budget Act, consistent with the applicable three-year Investment Plan.

2. **SB 535 Requirements**

   SB 535 specifically directs the Secretary for Environmental Protection to identify disadvantaged communities, and that the three-year Investment Plan:

   - Allocates at least 25 percent of the available proceeds to projects that provide benefits to disadvantaged communities; and
   - Allocates at least 10 percent of the available proceeds to projects located within disadvantaged communities.

3. **SB 1018 Requirements**

   SB 1018 establishes the GGRF as the account to receive auction proceeds and requirements to help ensure that all GGRF expenditures help achieve GHG reductions and further the purposes of AB 32. SB 1018 also requires State agencies that have been appropriated monies from the GGRF to prepare an Expenditure Record, a document that provides specific information prospectively identifying how the funds will be used.

4. **SB 862 Requirements**

   SB 862 establishes requirements for agencies receiving GGRF monies and provides continuous appropriations of future GGRF monies for transportation, transit, land use, housing, and agricultural land preservation programs. In addition to specific agency and program requirements, SB 862 requires that ARB develop overarching guidance on investments for disadvantaged communities, SB 1018 expenditure record preparation, reporting, tracking, and quantification approaches, and other guidance to be used by all agencies that receive appropriations from the fund.

Budget Appropriations

The 2013 Budget Act and related trailer bills–SB 862 and SB 103 (Budget and Fiscal Review Committee, Chapter 2, Statutes of 2013)–appropriated over $70 million in GGRF monies for investments in water and energy efficiency and conservation, investments in zero emission and near-zero emission vehicles, the designation of disadvantaged communities, and administrative funds for GGRF management. In addition, the 2013 Budget Act loaned $500 million from the GGRF to the General Fund, to be repaid with interest when required to meet the needs of the GGRF.

The 2014 Budget Act included $862 million in appropriations from the GGRF to administering agencies to invest in projects and administrative funds for GGRF management. This included $30 million for water-energy efficiency programs as the result of an emergency drought Bill enacted in March of 2015 (AB 91 to amend the Budget Act of 2014, Chapters 25 and 663 of the Statutes of 2014). The budget trailer bill, SB 862, provided that $400 million of the 2013 loan be available as needed upon repayment to the GGRF to the High Speed Rail Program. This budget trailer bill also established continuing appropriations totaling 60 percent of the GGRF monies beginning in 2015-16 to the following agencies and programs:

- 25 percent to the High Speed Rail Project administered by the High Speed Rail Authority;
- 20 percent to the Affordable Housing and Sustainable Communities Program administered by the Office of Planning and Research, the Strategic Growth Council, and its member agencies;
- 10 percent to the Transit and Intercity Rail Capital Program administered by the California State Transportation Agency; and
- 5 percent to the Low Carbon Transit Operations Program administered by the Department of Transportation (Caltrans).

In addition to the ongoing continuous appropriations, the 2015 Budget Act was enacted with limited funding to cover administrative costs for GGRF-funded programs. In September 2015, subsequent legislation appropriated baseline funding, and support for low carbon transportation, low-income weatherization programs, and water-energy efficiency programs. In total, the Legislature and Governor appropriated $1.7 billion for FY 2015-16.

Public Access to Information

Accountability and transparency are essential elements for all California Climate Investments. The public needs to know how agencies are investing GGRF appropriations and the benefits of those investments, including benefits to disadvantaged communities. For purposes of communications with fund recipients and the general public, any program that is paid for in part or in whole by the GGRF is considered under the umbrella of the "California Climate Investments" program.

This new name and the affiliated logo at right serve to bring under a single brand the many investments with funding from the GGRF.

This Annual Report to the Legislature describes the status and outcomes of California Climate Investments, and identifies how administering agencies are meeting the requirement for investing in projects that benefit disadvantaged communities. Additionally, to provide direct public access to information on the various programs, ARB hosts a central website that provides overall budget and program information, upcoming milestones and activities for all programs, ARB guidance, expenditure records, program status tables, and links to additional agency webpages and upcoming events. The website is available at: www.arb.ca.gov/auctionproceeds.

ARB is also developing an online project reporting and tracking system that will provide a centralized website for State agencies to enter project information. Once launched, it will include a website for the public to access information on each individual project, such as the type of project, location and estimated benefits. The mapping function will display projects geographically, including those located within and benefiting disadvantaged communities.

FUNDING GUIDANCE FOR CALIFORNIA CLIMATE INVESTMENTS

In 2015, ARB, along with Finance and administering agencies, participated in developing guidance for coordinated implementation of these investments in the form of a three-year Investment Plan and Funding Guidelines. Public input plays a key role in developing guidance, and these agencies held a series of public meetings to obtain input. The outcomes of this process are described below.

Public Outreach on Funding Guidance

Timeframe: Summer 2014 to December 2015

Investment Plan

- 10 workshops
- 1 ARB Board hearing
- Locations: Sacramento, Fresno, Oroville, Chico (stakeholder meeting), Oakland, Fontana, Los Angeles, and San Diego

Funding Guidelines

- 3 workshops on interim guidance
- 9 workshops on full Funding Guidelines
- Multiple stakeholder meetings
- 2 ARB Board hearings
- Locations: Sacramento, Fresno, Modesto, Bakersfield, Huron, Oroville, Oakland, Fontana, Los Angeles, Mecca, and San Diego

Cap-and-Trade Auction Proceeds Investment Plan

AB 1532 requires Finance, in consultation with ARB and other State agencies, to develop and submit to the Legislature a three-year Investment Plan for auction proceeds. The purpose of the Auction Proceeds Investment Plan is to identify opportunities for GHG reductions, and to identify potential State investment priorities to help achieve GHG emission reduction goals, benefit disadvantaged communities, and yield valuable co-benefits. GGRF funds for California Climate Investments are proposed by the Governor and appropriated by the Legislature, consistent with the three-year Investment Plan. Finance submitted the First Investment Plan to the Legislature in May 2013, which addresses auction proceeds appropriated in FY 2013-14 through 2015-16.

In 2015, the State developed the Second Investment Plan for Fiscal Years 2016-17, through 2018-19. Funding priorities presented in the Investment Plan come from the State's suite of climate legislation, its broader climate strategy, and the Governor's Executive Orders.

In July 2015, the State released a Draft Concept Paper for the Second Investment Plan for public comment. State agency and department representatives, including several representatives of the Climate Action Team, held seven workshops across the State to obtain public input on the Draft Concept Paper. In October 2015, the State released the Draft Second Investment Plan. In November 2015, State agency and department representatives held three additional workshops statewide to obtain further public input before the Draft was presented to the ARB Board in December 2015. The Final Second Investment Plan is available at: www.arb.ca.gov/investmentplan.

The Second Investment Plan complements the First Investment Plan, released in 2013, and recommends a diversified approach to achieve the State's climate targets through a strategic investment portfolio that facilitates ongoing emission reductions from: transportation and sustainable communities; clean energy and energy efficiency; and natural resources and waste diversion.

Funding Guidelines for Agencies that Administer California Climate Investments

SB 1018 and SB 862 establish ARB as the GGRF administrator and require that ARB develop overarching funding guidelines for agencies receiving GGRF appropriations. In statute, recipient agencies are referred to as "administering agencies." In accordance with its statutory role, ARB is working in partnership with administering agencies to provide guidance and tools that support consistent and streamlined implementation of California Climate Investments. SB 862 amended the Health and Safety Code to require that ARB do the following:

- Develop funding guidelines for agencies administering GGRF appropriations to ensure the requirements of the chapter (Health and Safety Code, Sections 39710-39723) are met (Chapter 836, Statutes of 2014, Health and Safety Code, Section 39715). These guidelines must include a component for how administering agencies should maximize benefits for disadvantaged communities.
- Develop guidance on reporting and quantification methods for all State agencies that receive appropriations from the GGRF (Government Code, Section 16428.9(b)).

In 2015, ARB staff developed *Funding Guidelines for Agencies that Administer California Climate Investments* (Funding Guidelines). The Funding Guidelines provide direction for agencies that administer GGRF appropriations, to design and implement their programs in a way that: reduces GHGs and furthers the purposes of AB 32; meets GGRF statutory requirements; maximizes benefits to disadvantaged communities; provides accountability and transparency; and supports consistency among agencies administering GGRF.

The Funding Guidelines aim to align investments with the environmental, economic, public health and other public policy goals of AB 32, while providing consistent and transparent implementation of all GGRF programs. The Funding Guidelines include three volumes, as shown in Figure 4.

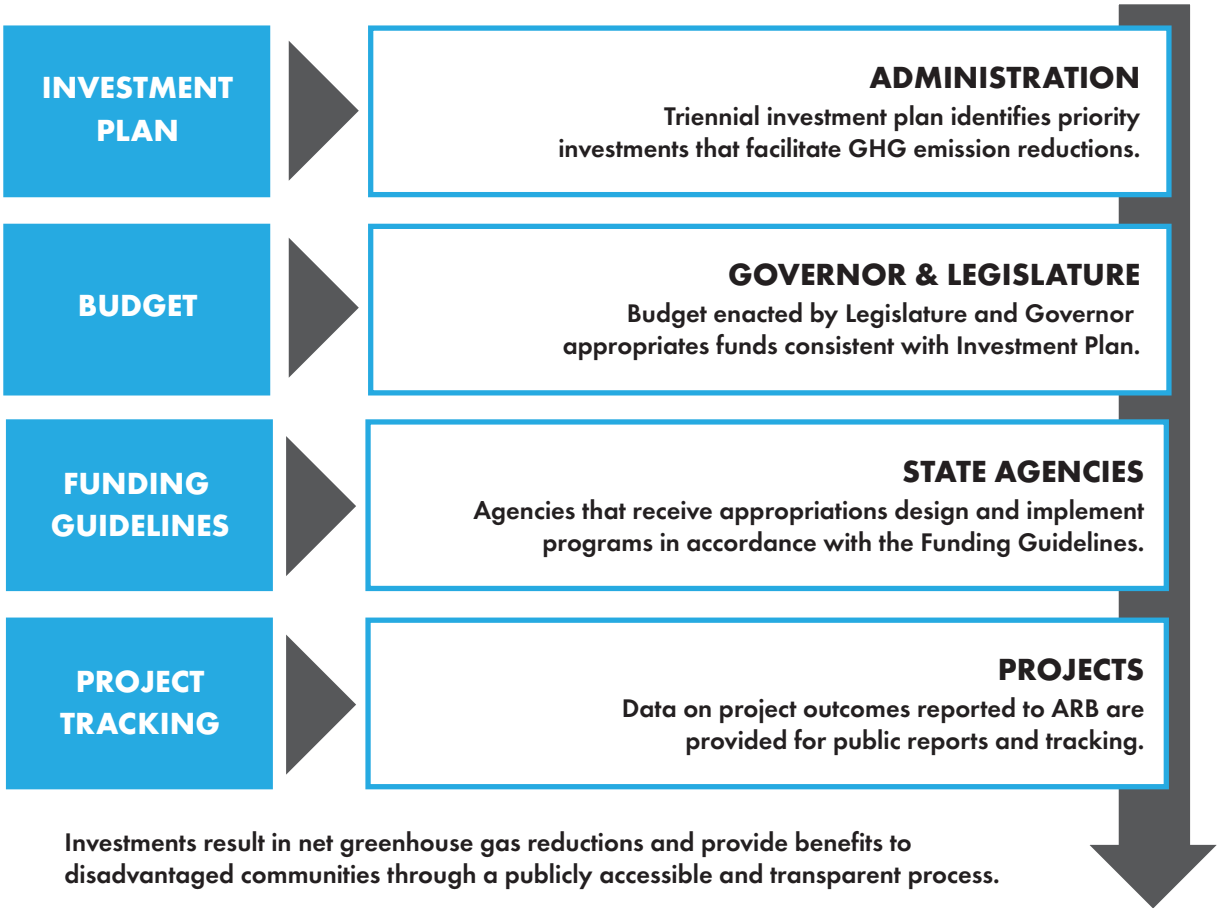
Figure 4: Funding Guidelines for Agencies that Administer California Climate Investments by Volume and Subject

VOLUME 1	GENERAL GUIDANCE	Guidance on how agencies design and implement their programs to meet statutory requirements, ensure accountability, and provide public transparency for projects funded by GGRF dollars. Also includes guidance on Expenditure Records and fiscal procedures.
VOLUME 2	INVESTMENTS TO BENEFIT DISADVANTAGED COMMUNITIES	Approaches that agencies can use to maximize benefits to disadvantaged communities. Also provides direction on how agencies determine whether investments are located within, or provide benefits to, disadvantaged communities.
VOLUME 3	REPORTING REQUIREMENTS	Requirements for agencies to submit data that documents greenhouse gas reductions, co-benefits, and other project outcomes.

Throughout the development process, ARB coordinated with administering agencies and stakeholders to obtain input. ARB held nine public workshops on the draft Funding Guidelines in the summer of 2015 to solicit feedback from interested parties. The Board adopted the Funding Guidelines in September 2015 and the final version was released in December 2015. ARB plans to periodically update the Funding Guidelines, as needed, to incorporate new programs or accommodate changes to existing programs. The Funding Guidelines are available at: www.arb.ca.gov/cc/capandtrade/auctionproceeds/arb-funding-guidelines-for-ca-climate-investments.pdf.

Figure 5 shows how the legislative process and funding guidance described above inform implementation of California Climate Investments to achieve GHG reductions.

Figure 5: Administrative Process for Implementing California Climate Investments



Guidance for Investments to Benefit Disadvantaged Communities

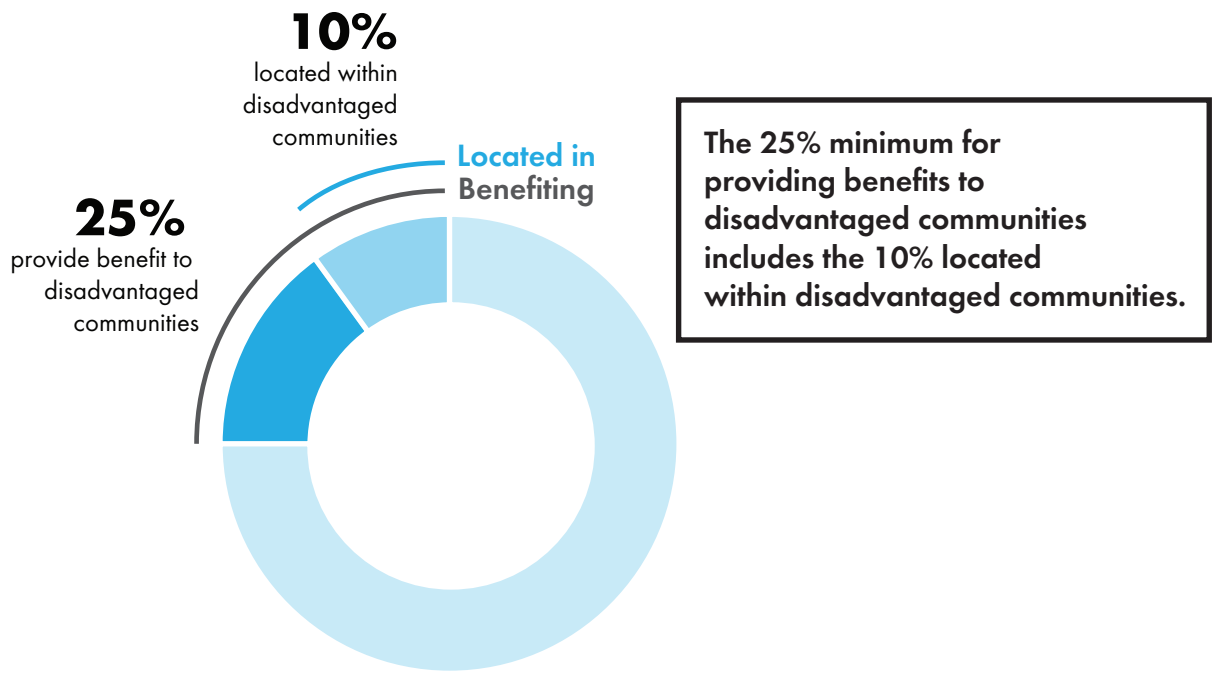
SB 535 directs the State and administering agencies to make significant investments that benefit California's most vulnerable communities. The California Environmental Protection Agency identified disadvantaged communities using the CalEnviroScreen 2.0, a tool developed by the Office of Environmental Health Hazard Assessment.

The Funding Guidelines establish two types of screening criteria to determine whether a specific project qualifies to be counted toward SB 535 funding minimums. Projects must meet one or both of the following criteria:

- **Criterion 1:** Is located within a census tract identified as a disadvantaged community; provides direct, meaningful, and assured benefits to one or more disadvantaged communities; and meets a specific criteria identified in the Funding Guidelines; or — 10%
- **Criterion 2:** Provides direct, meaningful, and assured benefits according to specific criteria defined in the Funding Guidelines to one or more disadvantaged communities. — 25%

The Funding Guidelines establish that all projects that meet Criterion 1 count towards the SB 535 requirements for both investments "within" disadvantaged communities and investments "benefiting" disadvantaged communities. The result is that the investments in all projects credited under Criterion 1 are a subset of the projects credited under Criterion 2; investments in projects that meet Criterion 2 only count as investments "benefiting" disadvantaged communities. This construct is depicted in Figure 6.

Figure 6: Funding Minimums for Disadvantaged Community Benefits



For the purposes of tracking and determining progress in complying with SB 535, the above percentage requirements apply to the overall appropriation from the GGRF, rather than to each agency appropriation. This approach recognizes that some agencies will expend more than 25 percent to benefit disadvantaged communities, while others may expend less, based on the nature of the programs and funded projects. For instance, while statute and the Funding Guidelines encourage all agencies to maximize benefits for disadvantaged communities wherever possible, certain programs are better-suited for being located within disadvantaged communities (e.g., urban forestry, weatherization), and some are well-suited to provide benefits to those communities even if they are located outside the boundaries of those census tracts (e.g., low carbon transportation). Volume I of the Funding Guidelines identifies the primary programs likely to provide disadvantaged community benefits and includes minimum targets for each program for FY 2014-15 and 2015-16.

For this report, disadvantaged community benefits were based on ARB's *Interim Guidance on Maximizing Benefits to Disadvantaged Communities* (November 2014).

Going forward, disadvantaged community benefits will be evaluated based on the December 2015 Final Funding Guidelines, which contain more stringent criteria. Specifically, projects must meaningfully address an important community need to be considered as benefitting a disadvantaged community. As a result, future reports to the Legislature may reflect lower disadvantaged community benefits due to the increased stringency, or because new approaches to program development and implementation may be necessary to satisfy the more stringent criteria.

Quantification Methodologies

Agencies are periodically required to report on the estimated benefits of California Climate Investments. ARB has a statutory role under SB 862 to develop guidance on quantification methods for agencies that receive GGRF appropriations. ARB, in coordination with administering agencies, develops quantification methodologies that are used to estimate GHG reductions achieved by funded projects. In select instances, (i.e., the Low Carbon Transit Operations Program and Sustainable Agricultural Lands Program – Strategy Grants) agencies selected projects before ARB completed quantification methodologies. As a result, FY 2014-15 awarded projects for those programs do not have quantified GHG reduction estimates.

Quantifying GHG Reductions

- Website has 18 quantification methods posted for FY 2014-15 programs
- Covering over 50 project types

Through FY 2015-2016, 12 agencies received appropriations to fund a variety of programs with over 50 eligible project types that require individual quantification approaches. The development of quantification methods relies on review of available science, close coordination with administering agencies, and work with academic consultants and other experts as needed.

This work will continue in 2016 to cover additional project types. The number of quantified project types will grow as the State Budget adds appropriations for new programs and agencies expand the scope of eligible project types. Similarly, as the GGRF program continues to develop, these quantification methodologies will be improved to allow for a more sophisticated and consistent approach across programs. In addition, ARB staff anticipates expanding quantification methods to include the co-benefits of funded projects to allow for a more comprehensive benefit assessment and inform project evaluation based on GHG reduction potential and the ability to maximize public health, economic, and environmental co-benefits.

IMPLEMENTING CALIFORNIA CLIMATE INVESTMENTS

As projects are implemented, agencies are responsible for collecting project information from funding recipients and submitting reports to ARB, consistent with ARB's Funding Guidelines. ARB consolidates the data from all agencies to provide an annual update on program outcomes, including:

- The status of investments;
- GHG reductions achieved or anticipated using the appropriate ARB quantification methodology;
- Progress in meeting or exceeding SB 535 targets for investment in and benefits to disadvantaged communities;
- Update on economic, environmental, and public health co-benefits achieved or anticipated; and
- Project locations.

ARB is also developing an online tracking system that will allow the public to view detailed information on funded projects and will support the ability to search by project type or location. This system is expected to be available within two years.

Appendix A includes a series of project level tables that list funded projects including name, description, and GGRF dollars. To provide granularity on these projects, ARB will also publish data provided by each agency on funded projects including description, location, GHG reductions, and disadvantaged community benefits on the auction proceeds website within one month of this report. The data will be downloadable to support independent analyses.

Status of Programs

Administering agencies are in various stages of program development or implementation. Some agencies are still awarding FY 2014-15 funds and some agencies with 2015-16 funds are finalizing program guidelines, soliciting project proposals, or evaluating those proposals. The total appropriation and budgetary expenditures[4] for each program, as of November 1, 2015, are detailed in Appendix B. This report includes funds awarded through 2015, with the expectation that the number of funded projects will grow as agencies continue to implement their appropriated funding.

For a more complete understanding of the status of programs, it is useful to understand how California Climate Investments flow from the GGRF, through administering agencies, to project implementers. Figure 7 shows the movement of funds and provides a working definition for terms that are used in reporting the outcomes of these investments.

4 For this report, "Budgetary expenditures" represent the amount of GGRF monies that have been expended, including any remaining encumbrances. Any monies that are included in signed agreements/contracts or spent by an agency (e.g., monies signed into grant agreements, issued to an end user for a voucher, or spent by the agency for administrative costs), are listed as budgetary expenditures.

Figure 7: Terms for California Climate Investments FY 2013-14 through 2015-16

APPROPRIATED FUNDS

Authorization from the Legislature and Governor for an administering agency to make expenditures or obligations of auction proceeds from the GGRF. Appropriations are typically made during the budget process.

ALLOCATED FUNDS

The amount of money that State agencies allocate to specific programs in accordance with their budget appropriation. For example, SGC allocates its total budget appropriation to two programs.

AWARDED FUNDS

After an administering agency has selected projects for funding, the amount of money that it commits to spend on those projects is referred to as "Awarded Funds," even if the agency still needs to finalize a grant agreement or loan. "Awarded Funds" are used for estimating GHG emissions reductions in this report, because the design characteristics for each project are known.

IMPLEMENTED FUNDS

The amount of money that has actually been distributed for consumer-driven incentives (e.g., rebates, vouchers, weatherizing homes, solar installations). "Implemented Funds" also includes money obligated or expended for select capital projects or equipment upgrades. "Implemented Funds" are used for reporting benefits to disadvantaged communities in this report, because the specific project location is known.

Demand for California Climate Investments

Interest in California Climate Investments exceeded funds available through competitive solicitations. Appendix C shows solicitation responses for programs that selected projects through completed competitive processes. The programs included in Appendix C are a subset of total investments and do not include projects administered directly by agencies, such as High Speed Rail, or projects awarded on a first-come, first-served basis, such as the Clean Vehicle Rebate Project. The high demand, as much as $2-9 for every dollar available, indicates significant additional opportunity for GHG reductions. The value of these investments is also demonstrated through the additional capital leveraged. In total, agency reports indicate the $1.7 billion in awarded funds have attracted over $5.7 billion from additional sources, leveraging more than $3 for every dollar invested. Appendix D shows leveraged funds for awarded dollars for applicable agencies and project types.

Greenhouse Gas Emissions Reductions

For California Climate Investments, GHG reductions include both net reductions of the GHGs identified in AB 32, as well as net carbon sequestration achieved through long-term management practices on natural and working lands.

The awarded funds are anticipated to provide 14.3 million $MTCO_2e$ GHG reductions over the lifetime of implemented projects. This number is based on the GGRF dollars invested and does not include the additional reductions from the cumulative investment in the High Speed Rail System over the next decade. Figure 8 shows reductions from investments awarded through 2015, as well as the reductions from High Speed Rail.[5]

Figure 8: Anticipated Greenhouse Gas Reductions from California Climate Investments Awarded through 2015

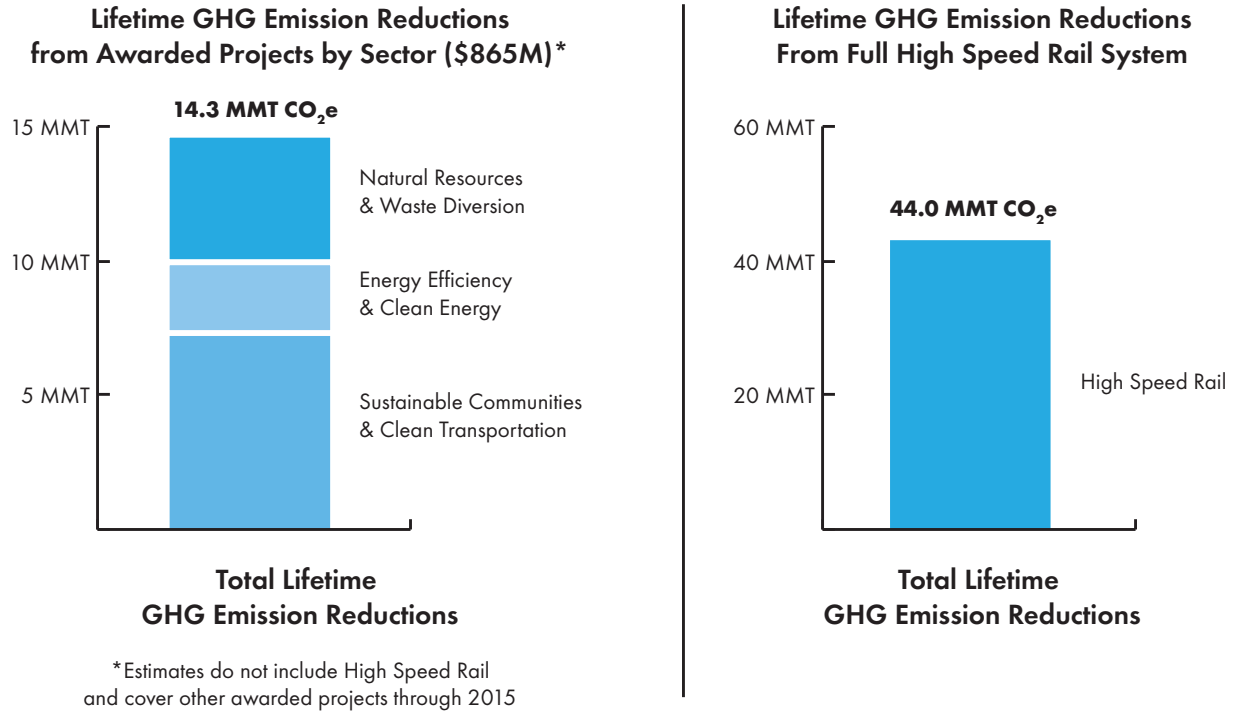
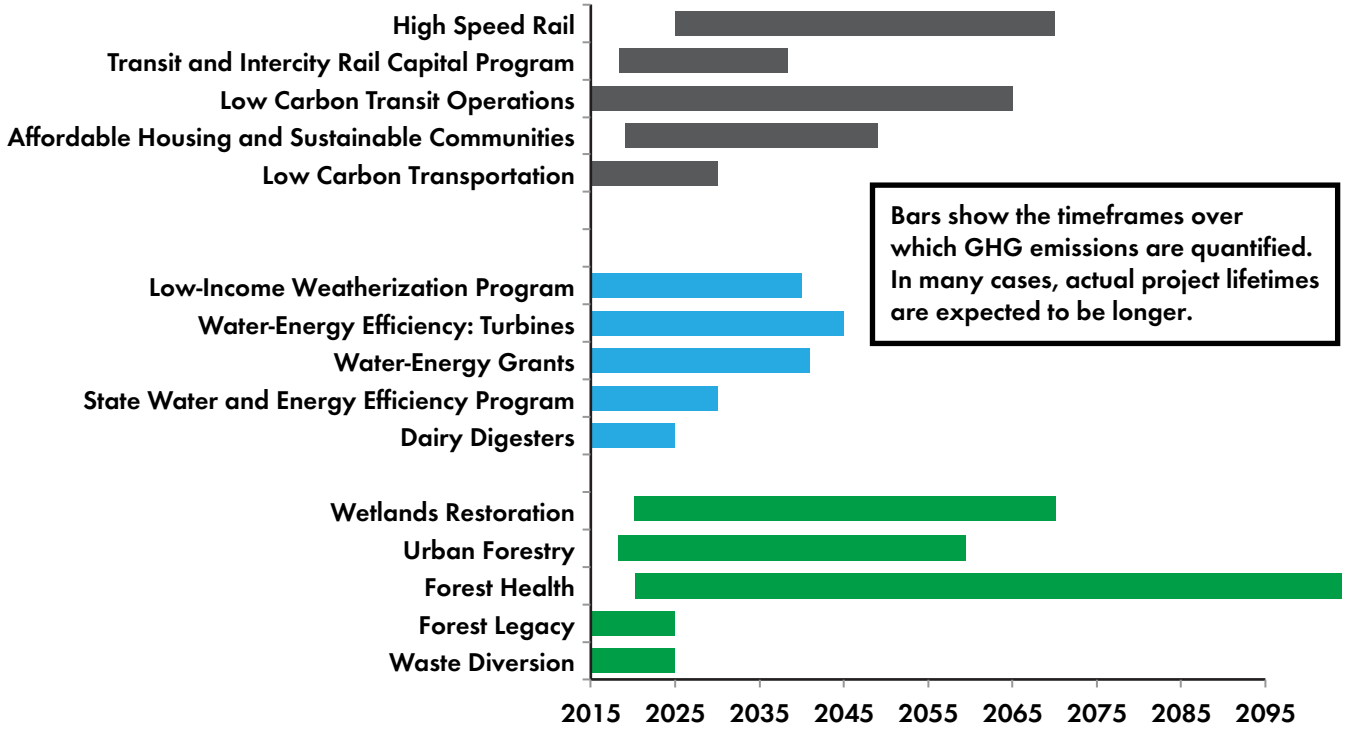


Figure 9 shows the timeframes over which the GHG emission reductions of these investments are quantified. Many of these programs are comprised of sub-programs or include several eligible project types, which are condensed for simplicity in the figure.

The timeframe over which GHG reductions are estimated is variable and depends on the type of investment. For example, energy efficiency retrofit projects will yield GHG reductions soon after implementation and will continue to provide GHG reductions for the "life" of the retrofit (lighting, HVAC system, etc.), generally five to 20 years. Other projects implemented now, such as Forest Health projects, may result in short-term emissions, then provide benefits for decades. Demonstration and pilot projects may be quantified over a short-term (GHG reductions for three or fewer years) but advance or accelerate widespread implementation of new technologies that will reduce GHGs for many years. Therefore, the reported estimates indicate that reductions that will be achieved now and well into the future, helping to achieve both short- and long-term GHG reduction goals, and to drive innovation and adoption of GHG reducing strategies.

5 The HSRA's GHG reduction estimates are based on the June 2013 assessment, Contribution of the High-Speed Rail Program to Reducing California's Greenhouse Gas Emission Levels. The HSRA is in the process of updating the Draft 2016 Business Plan, which may change the GHG reduction estimates for this project.

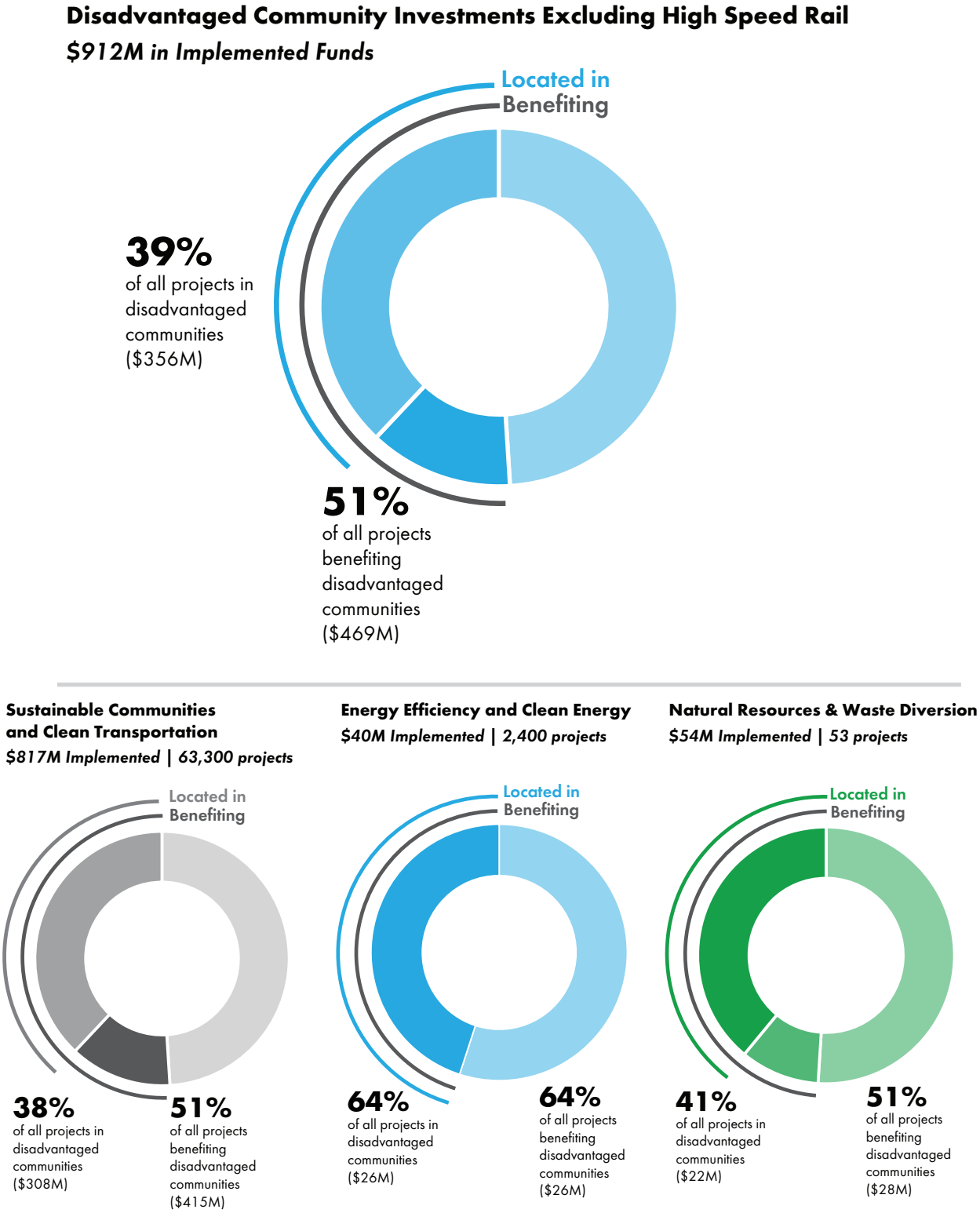
Figure 9: Timeframes for Estimated Greenhouse Gas Reductions Resulting from California Climate Investments, 2015-2095



Benefits to Disadvantaged Communities

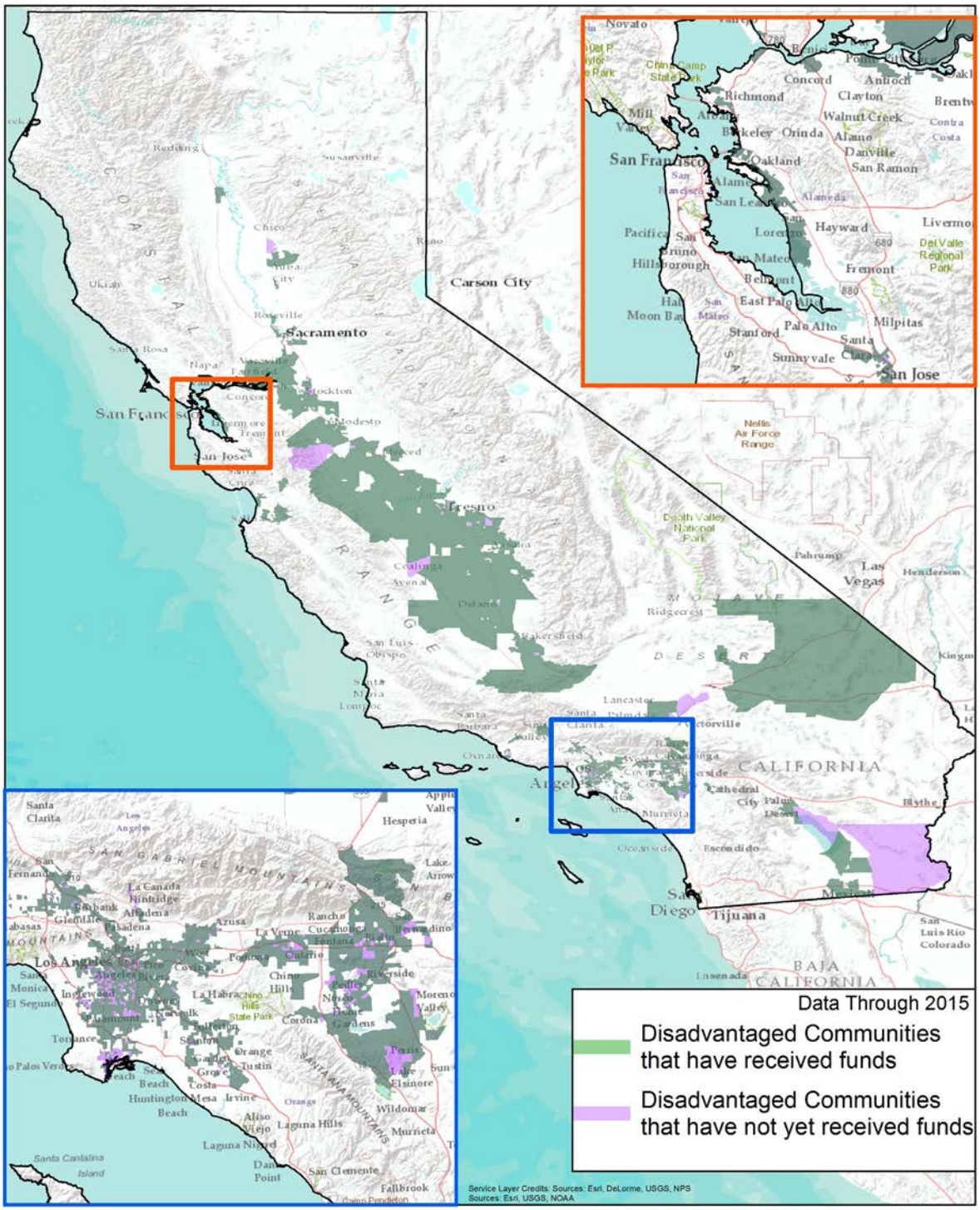
Based on agency data reported as of December 2015, 51 percent of the $912 million dollars implementing California Climate Investments are funding projects that provide benefits to disadvantaged communities; 39 percent of the $912 million are funding projects located within disadvantaged communities. Figure 10 shows the percentage of investments that provide benefits to, and are located within, disadvantaged communities for each investment sector.

Figure 10: Implemented Funding to Benefit Disadvantaged Communities through 2015 (of $912 million implemented)



In total, administering agencies have invested $469 million of $912 million total in projects that benefit disadvantaged communities through 2015. Figure 11 shows that approximately 87 percent of the disadvantaged community census tracts already have projects funded by California Climate Investments within them.

Figure 11: Disadvantaged Community Census Tracts with Projects Funded by California Climate Investments through 2015



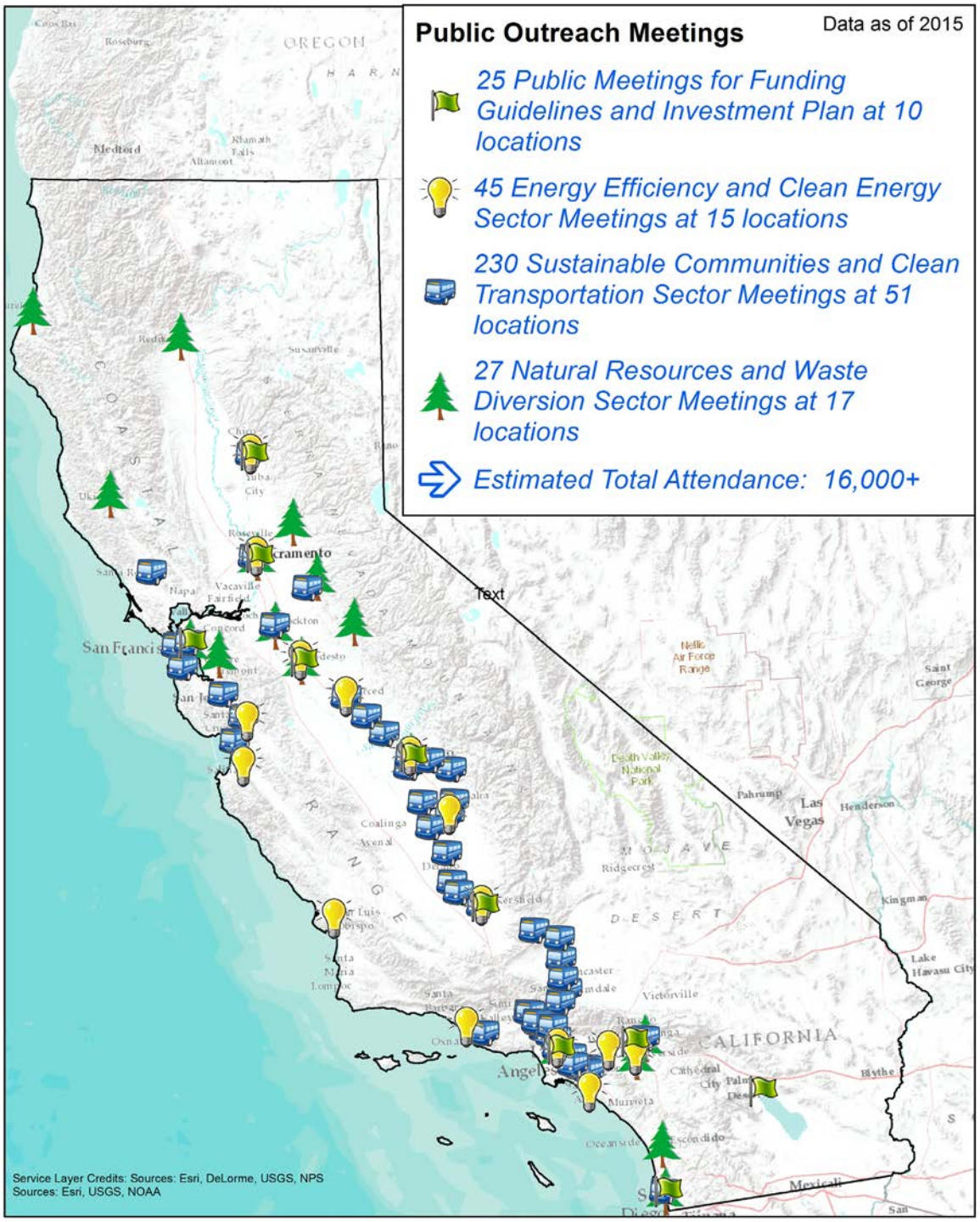
Outreach and Public Process

Public engagement plays a critical role in the development and implementation of these programs. In 2015, engaged stakeholders provided valuable feedback and input that supports investment recommendations and results in meaningful benefits to disadvantaged communities and other areas of the State.

In addition to the 25 public events held in developing the Investment Plan and Funding Guidelines, administering agencies held individual program workshops, webinars, teleconferences, and other public meetings at various locations throughout the State. Through December 2015, these agencies convened over 300 public meetings, in 83 cities, with over 16,000 attendees and participants. Figure 12 maps California Climate Investments public engagement events through 2015, and Appendix E includes a complete list of public meetings.

Administering agencies will continue to provide opportunities for public input and comment as programs are developed, implemented, and refined.

Figure 12: California Climate Investments Public Outreach Events by Location, 2014-2015

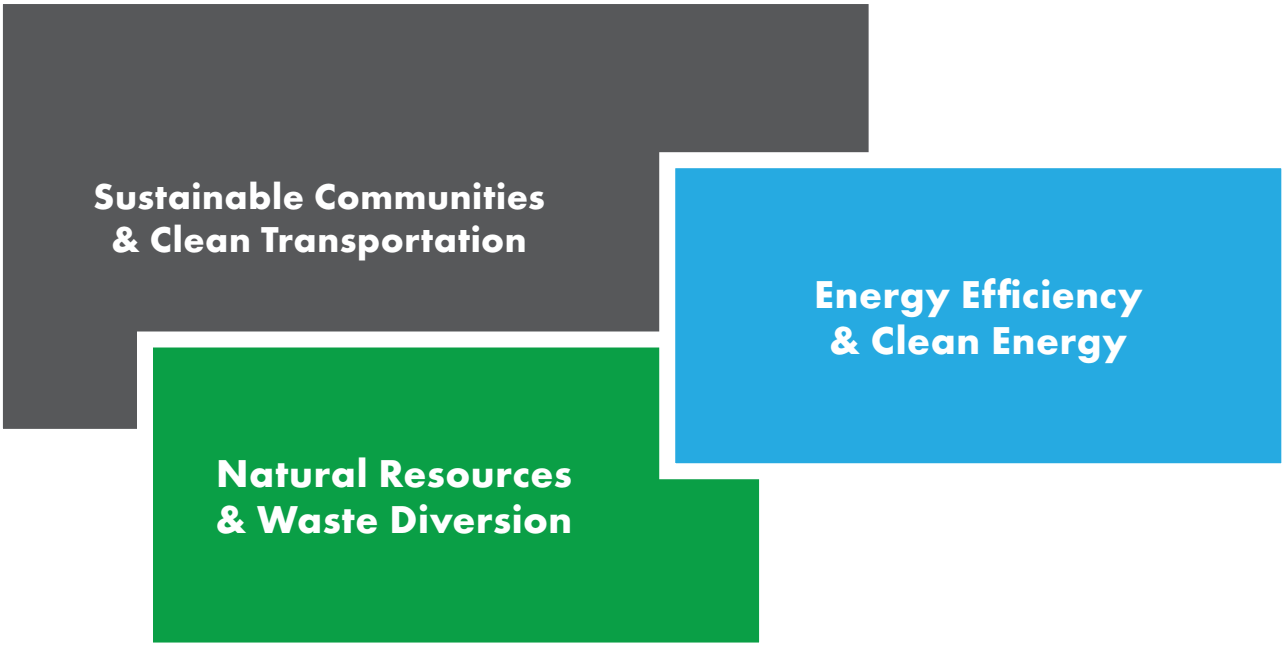


The remainder of this Report provides a summary of the status of California Climate Investments and the outcomes of those investments for each of the sectors prioritized under the Investment Plan.

Each section provides the following:

- An overview of the sector, including funds appropriated, awarded and implemented;
- A description of the types of projects being funded;
- A summary of the anticipated GHG emission reductions from awarded funds and a qualitative description of the resulting co-benefits;
- A summary of the disadvantaged community benefits from implemented funds; and
- Maps of project types and locations for implemented funds.

Each section also contains illustrative project profiles that provide examples of projects and their contributions to achieving the outcomes reported here.



INVESTMENTS IN SUSTAINABLE COMMUNITIES AND CLEAN TRANSPORTATION

$2.2B APPROPRIATED THROUGH 2015

SB 862, enacted by the Legislature and the Governor in 2014, established continuous appropriations of 60 percent of the available GGRF proceeds for transportation and sustainable communities programs, including High Speed Rail, local and regional public transit, affordable housing and sustainable communities projects. In addition, ARB administers the Low Carbon Transportation Program.

These investments provide a variety of benefits including: reduced petroleum use from passenger transportation; reduced air pollution; a more robust and accessible public transit system; investment in advanced transportation technologies; and integrated land use, transportation, active transportation, and housing strategies to build transportation-efficient communities.

Five agencies are implementing California Climate Investments in sustainable communities and clean transportation. Agency investments are described below; in some cases, these investments are allocated to multiple sub-programs. For more information about the details of a specific program or sub-program, please visit: www.arb.ca.gov/cc/capandtrade/auctionproceeds/ggrfprogrampage.htm#Transportation.

OAKLAND AFFORDABLE HOUSING PROJECT (SGC)

Transit oriented development to bring homes and jobs closer together.

COMPLETION MARCH 2018

$ 3,000,000 (GGRF)

Estimated Reduction of 5,100 $MTCO_2e$

32 housing units

CALIFORNIA High-Speed Rail Authority

CONTINUOUSLY APPROPRIATED: 25%
APPROPRIATED THROUGH FY 2015-16: $850M
AWARDED THROUGH 2015: $850M
IMPLEMENTED THROUGH 2015: $259M
1 PROJECT IMPLEMENTED

HIGH-SPEED RAIL AUTHORITY (HSRA) HIGH-SPEED RAIL PROJECT

Planning, designing and constructing rail service for travel from the San Francisco Bay Area to the Los Angeles basin via the Central Valley in less than three hours at speeds capable of exceeding 200 miles per hour. GGRF monies are funding construction of the initial operating segment and further environmental and design work on the statewide rail system.[6]

Estimated GHG Reductions[7]
Based on projected net GHG emission reductions associated with the construction and operation of the high-speed rail system. The HSRA's Draft 2016 Business Plan has revised the start date to 2025 for the initial operating segment.

6 On February 18, 2016 the HSRA released the Draft 2016 Business Plan, a foundational document for implementing the California High-Speed Rail program that reflects the transition from planning to construction to providing passenger service. Overall capital costs are reduced from $67.6 billion to $64.2 billion.

7 The HSRA's GHG reduction estimates are based on the June 2013 assessment, Contribution of the High-Speed Rail Program to Reducing California's Greenhouse Gas Emission Levels. The HSRA is in the process of updating the Draft 2016 Business Plan, which may change the GHG reduction estimates for this project.

Based on $850M of Awarded Funds

REDUCTIONS

44,000,000 $MTCO_2e$

Over 50 years

Based on $259M of Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES

—

of Implemented Projects

—

in Funding

1

Project

IN DISADVANTAGED COMMUNITIES

—

of Implemented Projects

—

in funding

1

Project

Disadvantaged Community Benefits[8]

The High Speed Rail Project provides employment and economic benefits to areas that contain disadvantaged communities.

Co-Benefits

Examples include: employment and economic development opportunities.

Additional Information

The High Speed Rail Project is expected to greatly benefit Central Valley communities where unemployment is more than double the state's current average of 5.7 percent. For example, unemployment in the City of Fresno is 11.5 percent, Sanger is 11.7 percent, and Mendota's unemployment is 20.6 percent. Over time, the project will create thousands of direct construction-related jobs and will lead to permanent operations, maintenance, and manufacturing jobs.

As of November 2015, the project has employed more than 200 craft labor workers in the Central Valley and contracted with 100 small businesses located within disadvantaged communities. For example, small business J. Kroeker, Inc., a woman-owned business enterprise in Fresno, is responsible for all the demolition projects in the High Speed Rail Project's first significant construction contract. Outback Materials, a Certified Small Business operating five concrete batch plants in the Central Valley and its foothills, is supplying concrete for the rail project. The company is expanding its operations to include a new batch plant in North Fresno and hire an estimated 25 new workers. Clovis-based Blair Church & Flynn Consulting Engineers is a Native-American-owned small business contracted to provide utility re-location design work in the Central Valley for the project.

Training programs have also rapidly expanded in the past few years with nearly 450 apprentices and pre-apprentices enrolled in programs throughout the San Joaquin Valley to meet the demand for clean energy projects and High Speed Rail construction. These training programs connect target populations – including veterans, at-risk youth and low-income earners – with immediate work opportunities in good-paying, sustainable, middle-class jobs.

High Speed Rail

Local workforce
- 200+ craft laborers employed

Engagement
- Engaged 265 certified small businesses
- Contracted with 100+ small businesses located within disadvantaged communities

In addition, connecting the Silicon Valley to the Central Valley as the project's first operating segment offers the potential to transform the Central Valley's disadvantaged communities. With this new connection reducing a trip from Fresno to San Jose to about an hour, new job markets will be opened up for people living in the Central Valley. New linkages will be created between higher education institutions in the Central Valley and high-tech and other cutting edge industries in the Silicon Valley. And some high-tech companies might choose to locate certain corporate functions in the Central Valley where commercial real estate is less expensive, generating new job opportunities in this region.

8 The current appropriations will easily exceed the SB 535 disadvantaged community targets without including High Speed Rail. However, High Speed Rail Project is expected to greatly benefit disadvantaged communities by creating thousands of direct construction-related jobs in Central Valley communities, which have some of the highest unemployment rates in the country. Over time, the project will lead to permanent operations, maintenance, and manufacturing jobs. As of November 2015, the project has employed over 200 craft labor workers in the Central Valley and contracted with 100 small businesses located within disadvantaged communities. The project has created a pipeline for workers from disadvantaged communities to apprentice in the construction trades. In addition, connecting the Silicon Valley to the Central Valley offers the potential to transform the Central Valley's disadvantaged communities by opening up new job markets for people living in the Central Valley, creating linkages between higher education institutions in the Central Valley and high-tech industries in the Silicon Valley, and incentivizing high-tech companies to locate certain functions in the Central Valley where commercial real estate is less expensive.

CALIFORNIA STATE TRANSPORTATION AGENCY

CONTINUOUSLY APPROPRIATED: 10%
APPROPRIATED THROUGH FY 2015-16: $265M
AWARDED THROUGH 2015: $224.3M
IMPLEMENTED THROUGH 2015: $224.3M
14 PROJECTS IMPLEMENTED

CALIFORNIA STATE TRANSPORTATION AGENCY (CALSTA) TRANSIT AND INTERCITY RAIL CAPITAL PROGRAM (TIRCP)

Funds transformative capital improvements that modernize California's transit and rail systems to reduce GHGs, vehicle miles traveled (VMT), and congestion. This competitive grant program supports capital improvements to integrate State and local transit systems, and provide connectivity to the high-speed rail system.

Estimated GHG Reductions

Based on an estimated reduction in VMT, technology conversions, and transit ridership estimates provided by funding recipients. Project reductions did not account for benefits related to connectivity to other services or the potential multiplier effect of transit-oriented development.

Disadvantaged Community Benefits

Projects increase transit service along transit lines or corridors that are accessible to disadvantaged community residents, improve transit access for disadvantaged community residents, or reduce air pollution in a disadvantaged community.

Co-Benefits

Examples include: greater transit service and rail reliability; greater integration of transit and intercity rail among providers; operating cost savings; improved station access including by active transportation; improved safety; and reduced congestion at major transit stations and on crowded transit services.

Based on $224.3M of Awarded Funds

REDUCTIONS

865,000 $MTCO_2e$

Up to 20 Years

Based on $224.3M of Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES

95%

of Implemented Projects

$213.3M

in Funding

13

Projects

IN DISADVANTAGED COMMUNITIES

84%

of Implemented Projects

$188.9M

in funding

12

Projects

Figure 13: High Speed Rail Authority and Transit and Intercity Rail Capital Project Locations

CONTINUOUSLY APPROPRIATED: 5%
APPROPRIATED THROUGH FY 2015-16: $145M
AWARDED THROUGH 2015: $24.2M
IMPLEMENTED THROUGH 2015: $24.2M
95 PROJECTS IMPLEMENTED

CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) LOCAL TRANSIT AGENCIES LOW CARBON TRANSIT OPERATIONS PROGRAM (LCTOP)

Provides operating and capital assistance for transit agencies according to a statutory funding formula. Eligible projects may include: new or expanded bus or rail services, expanded intermodal transit facilities, including equipment acquisition, fueling, maintenance, and other costs to operate services or facilities.

Estimated GHG Reductions

For FY 2014-15, GHG emission reductions were not quantified at the project scale. As an interim guide to comply with the GHG reduction requirement and distribute funds, Caltrans, in consultation with ARB, developed and used a list of eligible projects determined to meet the statutory requirements of SB 862. For FY 2015-16 ARB and Caltrans developed a quantification methodology to estimate GHG emission reductions prior to project implementation. The methodology does not account for benefits related to connectivity to other services or the potential multiplier effect of transit-oriented development.

Disadvantaged Community Benefits

Projects increase transit service along transit lines or corridors in a disadvantaged community; improve transit access for disadvantaged community residents; reduce air pollution in a disadvantaged community; or increase transit service along transit lines or corridors that are accessible to disadvantaged community residents.

Co-Benefits

Examples include: greater transit service and reliability; greater integration of transit among providers; operating cost savings; improved station access, including by active transportation; improved safety; and reduced congestion at major transit stations and on crowded transit services.

Based on $24.2M of Awarded Funds

NOT QUANTIFIED FOR FIRST YEAR

Based on $24.2M of Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES

93%
of Implemented Projects

$22.6M
in Funding

68
Projects

IN DISADVANTAGED COMMUNITIES

69%
of Implemented Projects

$16.7M
in funding

53
Projects

Figure 14: Low Carbon Transit Operations Program Project Locations

California Strategic Growth Council

CONTINUOUSLY APPROPRIATED: 20%
APPROPRIATED THROUGH FY 2015-16: $610M

STRATEGIC GROWTH COUNCIL (SGC)
AFFORDABLE HOUSING AND SUSTAINABLE COMMUNITIES (AHSC)

Funds land-use, housing, transportation, and land preservation projects to support infill and compact development that reduces GHG emissions through reduction of passenger vehicle miles travelled (VMT). The program is comprised of two components, the Affordable Housing and Sustainable Communities program and the Sustainable Agricultural Land Conservation program.

Affordable Housing and Sustainable Communities (AHSC)

ALLOCATED THROUGH 2015: $565M
AWARDED THROUGH 2015: $154.4M
IMPLEMENTED THROUGH 2015: $154.4M
33 PROJECTS IMPLEMENTED

Investment in projects that reduce GHG emissions by supporting compact, infill development patterns that encourage active transportation and transit usage. Projects will increase transit ridership, walking/biking, and affordable housing near transit stations. The Department of Housing and Community Development implements the AHSC program on behalf of the Strategic Growth Council.

Estimated GHG Reductions
Based on the modeled reductions in vehicle miles travelled from land use and transportation changes.

Disadvantaged Community Benefits
Projects reduce passenger vehicle miles travelled by disadvantaged community residents. Projects will also provide affordable housing, transit, and active transportation options for disadvantaged communities.

Co-Benefits
Examples include: reduction of housing and transportation costs; bringing jobs and housing closer together through the development of affordable housing, jobs, and multi-modal transportation; increased access to active modes of transportation; improved air quality through reduced vehicle miles travelled; increased access to parks; and reduced water use.

Based on $154.4M of Awarded Funds

REDUCTIONS

810,000 $MTCO_2e$

Up to 30 Years

Based on $154.4M of Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES

76%

of Implemented Projects

$117.1M

in Funding

27

Projects

IN DISADVANTAGED COMMUNITIES

55%

of Implemented Projects

$85.4M

in funding

22

Projects

Sustainable Agricultural Lands Conservation (SALC)

ALLOCATED THROUGH 2015: $45M
AWARDED THROUGH 2015: $4.2M
IMPLEMENTED THROUGH 2015: $4.2M
11 PROJECTS IMPLEMENTED

Makes strategic investments to protect agricultural lands from conversion to more GHG-intensive land uses. The California Natural Resources Agency and the Department of Conservation implement the SALC program on behalf of the Strategic Growth Council.

Estimated GHG Reductions
Based on the modeled reductions in VMT from avoided development.

Disadvantaged Community Benefits
Projects provide green space or open space.

Co-Benefits
Examples include: preservation of agricultural land; access to locally grown food; conservation of habitat, open space, and upland watersheds; and groundwater basin protection.

Based on $4.2M of Awarded Funds

REDUCTIONS

71,000 $MTCO_2e$

Over 30 Years

Based on $4.2 of Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES

10%

of Implemented Projects

$0.4M

in Funding

1

Projects

IN DISADVANTAGED COMMUNITIES

10%

of Implemented Projects

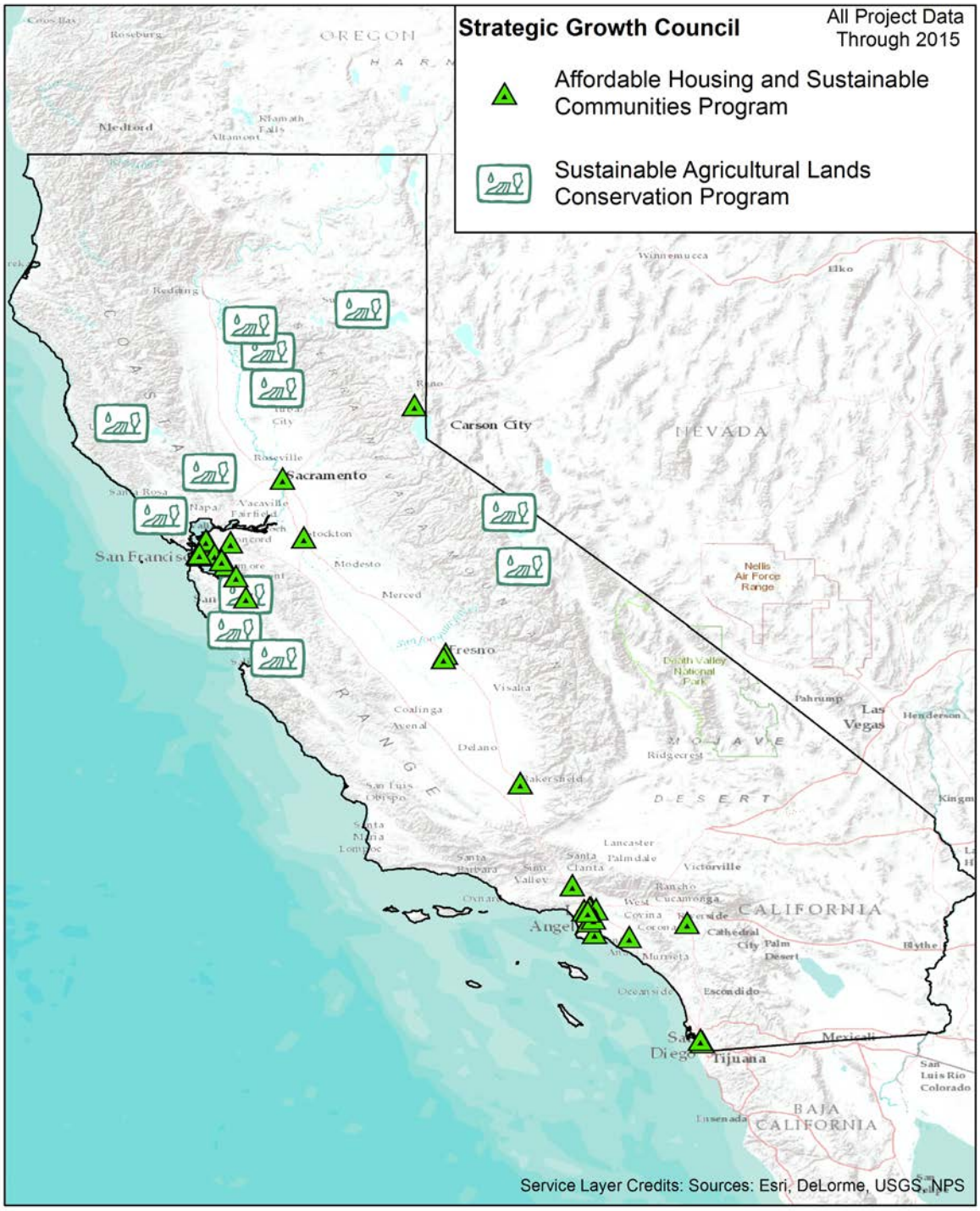
$0.4M

in funding

1

Projects

Figure 15: Affordable Housing and Sustainable Communities and Sustainable Agriculture Lands Conservation Project Locations



California Environmental Protection Agency

Air Resources Board

CONTINUOUSLY APPROPRIATED: N/A
APPROPRIATED THROUGH FY 2015-16: $325M

AIR RESOURCES BOARD
LOW CARBON TRANSPORTATION

Provides mobile source incentives to reduce GHG emissions, criteria pollutants, and air toxics through the development of advanced technology and clean transportation. The program is comprised of a variety of projects that provide multiple disadvantaged community benefits.

Clean Vehicle Rebate Project (CVRP)

ALLOCATED THROUGH 2015: $204.5M
AWARDED THROUGH 2015: $204.5M
IMPLEMENTED THROUGH 2015: $136M
62,327 REBATES ISSUED

Provides rebates to individuals, nonprofits, government entities, and business owners who purchase or lease battery electric, plug-in hybrid electric, and fuel cell vehicles.

Estimated GHG Reductions
Based on estimated GHG reductions from use of advanced technology vehicles instead of a conventional new vehicle.

Disadvantaged Community Benefits
Projects reduce air pollution for disadvantaged community residents.

Co-Benefits
Examples include: reductions of criteria pollutant emissions; reductions of petroleum use; and enabling market transformations of advanced technologies.

Based on $204.5M of Awarded Funds

REDUCTIONS

4,470,000 $MTCO_2e$

Over 15 Years

Based on $136 of Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES

37%

of Implemented Projects

$50.5M

in Funding

23,624

Projects

IN DISADVANTAGED COMMUNITIES

6%

of Implemented Projects

$8.4M

in funding

3,957

Projects

Hybrid and Zero Emission Truck and Bus Voucher Incentive Project (HVIP)

ALLOCATED THROUGH 2015: $19.9M
AWARDED THROUGH 2015: $19.9M
IMPLEMENTED THROUGH 2015: $11M
404 VOUCHERS ISSUED

Provides vouchers for the purchase of hybrid and zero-emission trucks or buses to help speed early market introduction of low-carbon vehicles.

Estimated GHG Reductions
Based on estimated GHG reductions from use of advanced technology instead of a conventional new vehicle.

Disadvantaged Community Benefits
Projects reduce air pollution for disadvantaged community residents.

Co-Benefits
Examples include: reductions of criteria pollutant emissions and toxics emissions; reductions of petroleum use; and enabling market transformations of advanced technologies.

Based on $19.9M of Awarded Funds

REDUCTIONS

44,000 $MTCO_2e$

Over 15 Years

Based on $11M of Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES

65%

of Implemented Projects

$7.2M

in Funding

300

Projects

IN DISADVANTAGED COMMUNITIES

45%

of Implemented Projects

$5.0M

in funding

213

Projects

Enhanced Fleet Modernization Program Plus-Up (EFMP Plus-Up) Pilot to Benefit Disadvantaged Communities

ALLOCATED THROUGH 2015: $12M
AWARDED THROUGH 2015: $12M
IMPLEMENTED THROUGH 2015: $1M
265 PROJECTS IMPLEMENTED

Promotes advanced technology vehicle replacement (both new and used) by providing additional financial assistance for cleaner vehicles. Provides larger incentives for the lowest income families and individuals to replace old vehicles with new and used cleaner and more efficient vehicles.

Estimated GHG Reductions
Based on estimated GHG reductions from use of advanced technology vehicles instead of a conventional new vehicle.

Disadvantaged Community Benefits
Projects reduce air pollution for disadvantaged community residents and provide cleaner vehicles for disadvantaged community residents.

Based on $12M of Awarded Funds

REDUCTIONS

29,000 $MTCO_2e$

Over 3 Years

Based on $1M of Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES

100%

of Implemented Projects

$1.0M

in Funding

265

Projects

IN DISADVANTAGED COMMUNITIES

70%

of Implemented Projects

$0.7M

in funding

198

Projects

Car Sharing and Mobility Options Pilot to Benefit Disadvantaged Communities

ALLOCATED THROUGH 2015: $2.5M
AWARDED THROUGH 2015: $2M
IMPLEMENTED THROUGH 2015: $2M
2 PROJECTS IMPLEMENTED

Establishes hybrid and advanced clean car sharing fleets and mobility options in disadvantaged communities to offer an alternate mode of transportation and encourage the use of clean cars.

Estimated GHG Reductions
Based on estimated GHG reductions from replacing conventional vehicle fleets with advanced technology fleets.

Disadvantaged Community Benefits
Projects increase mobility options and reduce air pollution for disadvantaged community residents.

Co-Benefits
Examples include: reductions of criteria pollutant emissions; reductions of petroleum use; and enabling market transformations of advanced technologies.

Based on $2M of Awarded Funds

REDUCTIONS

TBD

Based on $2M of Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES

100%
of Implemented Projects

$2.0M
in Funding

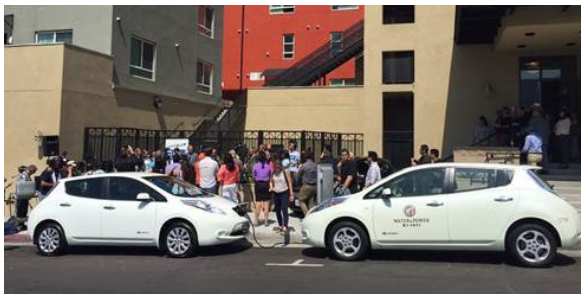
2
Projects

IN DISADVANTAGED COMMUNITIES

100%
of Implemented Projects

$2.0M
in funding

2
Projects



CAR SHARING IN LOS ANGELES (ARB)

Shared electric and hybrid vehicles to serve 7,000 residents in disadvantaged communities for 3 years.

$ 1,700,000 (GGRF)

100 vehicles in use

Public Fleets Increased Incentives Pilot to Benefit Disadvantaged Communities

ALLOCATED THROUGH 2015: $2.9M
AWARDED THROUGH 2015: $2.9M
IMPLEMENTED THROUGH 2015: $1.3M
172 REBATES ISSUED

Rebates for plug-in hybrid electric vehicles, battery electric vehicles, and fuel cell vehicles for public fleets operating in and near disadvantaged communities.

Estimated GHG Reductions
Based on estimated GHG reductions from use of advanced technology vehicles instead of a conventional new vehicle.

Disadvantaged Community Benefits
Projects reduce air pollution for disadvantaged community residents.

Co-Benefits
Examples include: reductions of criteria pollutant emissions; reductions of petroleum use; and enabling market transformations of advanced technologies.

Based on $2.9M of Awarded Funds

REDUCTIONS

4,000 $MTCO_2e$

Over 3 Years

Based on $1.3M of Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES

100%

of Implemented Projects

$1.3M

in Funding

172

Projects

IN DISADVANTAGED COMMUNITIES

38%

of Implemented Projects

$0.5M

in funding

61

Projects

Financing Assistance Pilot Project to Benefit Disadvantaged Communities

ALLOCATED THROUGH 2015: $1.5M
AWARDED THROUGH 2015: NONE
IMPLEMENTED THROUGH 2015: NONE

Financing assistance for low-income individuals interested in moving to a cleaner vehicle. This is a competitive solicitation process; as of this writing, ARB has executed an agreement with a grantee.

Estimated GHG Reductions
TBD

Disadvantaged Community Benefits
TBD

Co-Benefits
Examples include: reductions of criteria pollutant emissions; reductions of petroleum use; and enabling market transformations of advanced technologies.

Based on Awarded Funds

REDUCTIONS

TBD

Based on Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES

TBD
of Implemented Projects

TBD
in Funding

TBD
Projects

IN DISADVANTAGED COMMUNITIES

TBD
of Implemented Projects

TBD
in funding

TBD
Projects

Zero Emission Truck and Bus Pilot Project to Benefit Disadvantaged Communities

ALLOCATED THROUGH 2015: $25M
AWARDED THROUGH 2015: NONE
IMPLEMENTED THROUGH 2015: NONE

Demonstration projects help commercialize technologies with the potential to transform the truck and bus sectors toward zero-emission operation. This is a competitive solicitation process; as of this writing, the solicitation period is closed and staff are reviewing applications received, with preliminary selections expected in early 2016.

Estimated GHG Reductions
TBD

Disadvantaged Community Benefits
Solicitations require that these projects be located in areas that provide benefits to disadvantaged communities.

Co-Benefits
Examples include: reductions of criteria pollutant emissions and toxics emissions; reductions of petroleum use; and enabling market transformations of advanced technologies.

Based on Awarded Funds

REDUCTIONS
TBD

Based on Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES
TBD
of Implemented Projects
TBD
in Funding
TBD
Projects

IN DISADVANTAGED COMMUNITIES
TBD
of Implemented Projects
TBD
in funding
TBD
Projects

Advanced Technology Freight Demonstration Projects: Multi-Source Facility Projects

ALLOCATED THROUGH 2015: $25M
AWARDED THROUGH 2015: NONE
IMPLEMENTED THROUGH 2015: NONE

Demonstration projects of one facility with multiple types of equipment that employ advanced emission reducing or eliminating technologies. These projects will demonstrate the practicality and economic viability of widespread adoption of advanced technology for various sources at one facility. This is a competitive solicitation process; as of this writing, ARB made preliminary selections that are pending until an agreement becomes final.

Estimated GHG Reductions
TBD

Disadvantaged Community Benefits
Solicitations require that these projects be located in areas that provide benefits to disadvantaged communities.

Co-Benefits
Examples include: reductions of criteria pollutant emissions and toxics emissions; reductions of petroleum use; and enabling market transformations of advanced technologies.

Based on Awarded Funds

REDUCTIONS
TBD

Based on Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES
TBD
of Implemented Projects
TBD
in Funding
TBD
Projects

IN DISADVANTAGED COMMUNITIES
TBD
of Implemented Projects
TBD
in funding
TBD
Projects

Advanced Technology Freight Demonstration Projects: Drayage Trucks

ALLOCATED THROUGH 2015: $25M
AWARDED THROUGH 2015: NONE
IMPLEMENTED THROUGH 2015: NONE

Demonstration projects of full zero emission drayage tucks, and drayage trucks that offer zero emission miles by employing advanced technologies. ARB made preliminary selections that are pending until an agreement becomes final.

Estimated GHG Reductions
TBD

Disadvantaged Community Benefits
Solicitations require that these projects be located in areas that provide benefits to disadvantaged communities.

Co-Benefits
Examples include: reductions of criteria pollutant emissions and toxics emissions; reductions of petroleum use; and enabling market transformations of advanced technologies.

Based on Awarded Funds

REDUCTIONS
TBD

Based on Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES

TBD
of Implemented Projects

TBD
in Funding

TBD
Projects

IN DISADVANTAGED COMMUNITIES

TBD
of Implemented Projects

TBD
in funding

TBD
Projects

Figure 16: Clean Vehicle Rebate Project Locations

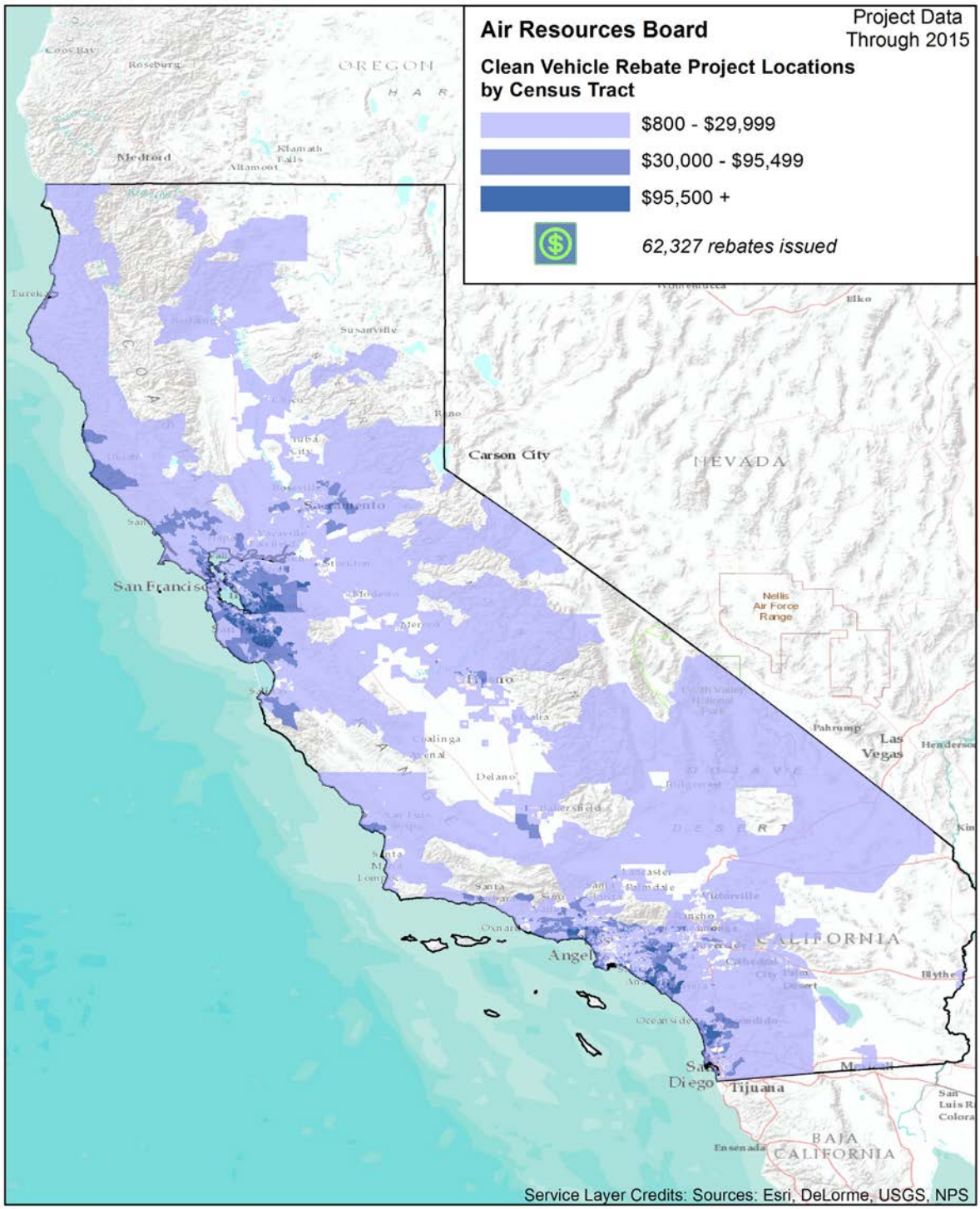


Figure 17: Hybrid Zero-Emission Truck and Bus Voucher Incentive Project Locations

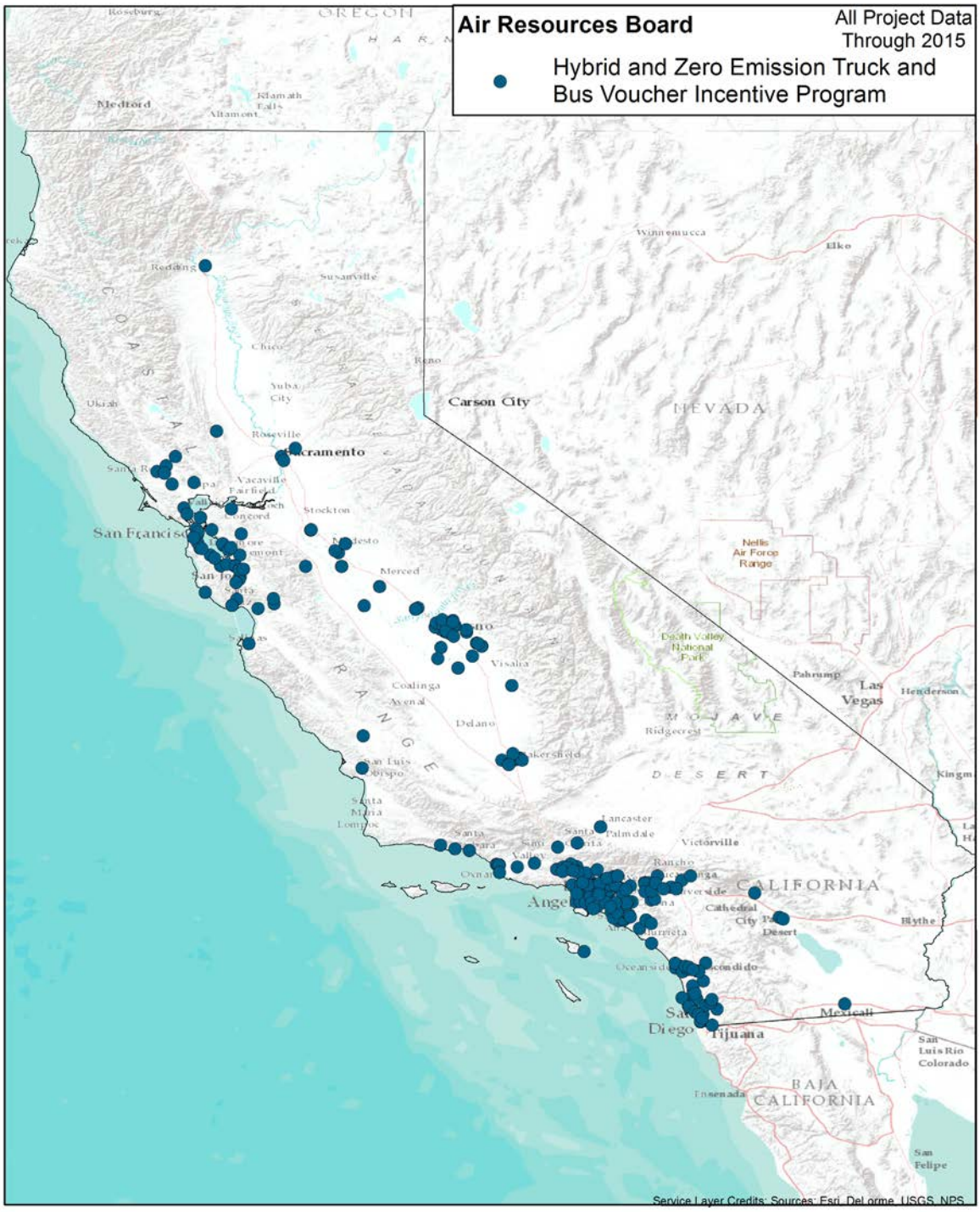


Figure 18: Enhanced Fleet Modernization Plus-Up Project Locations

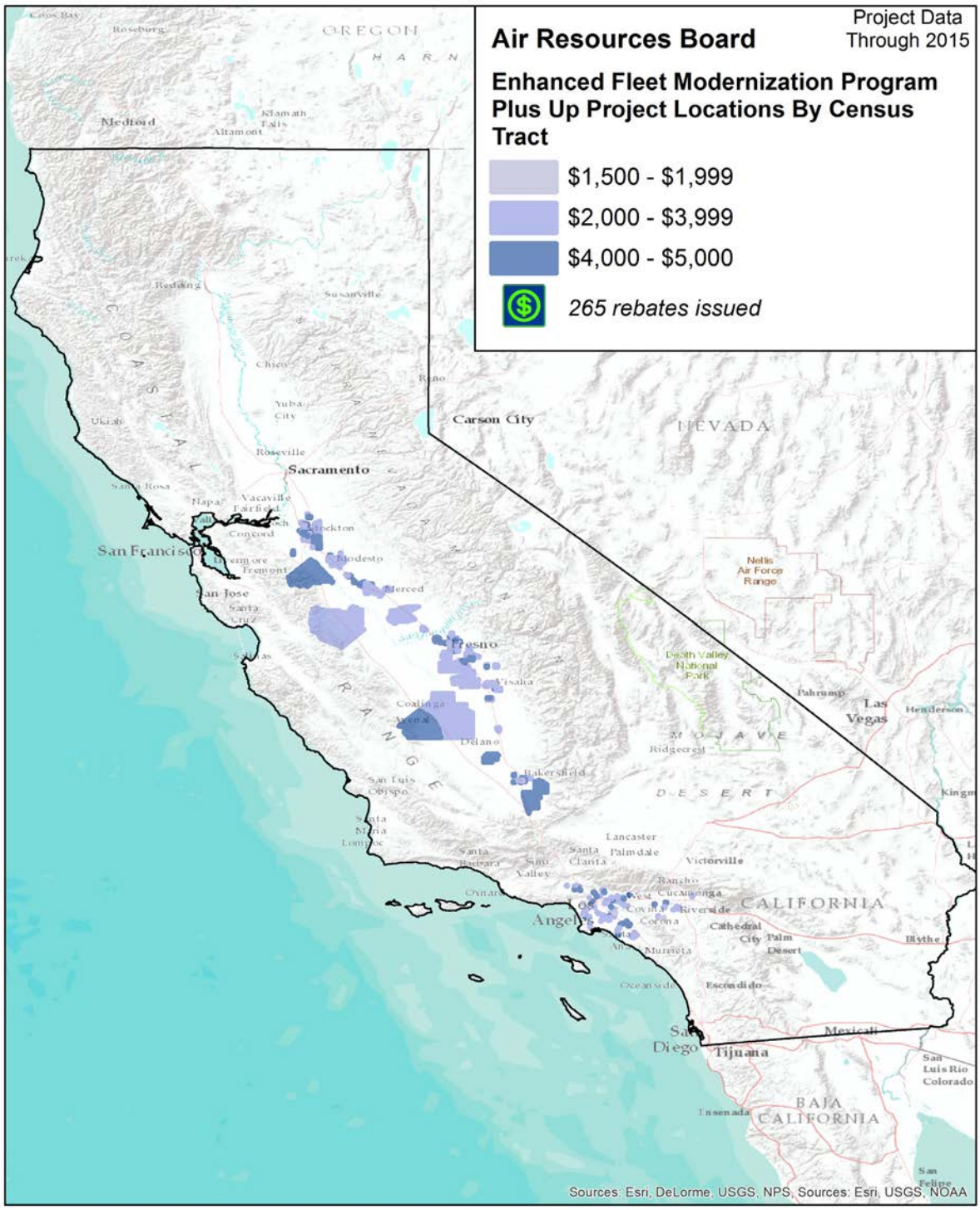
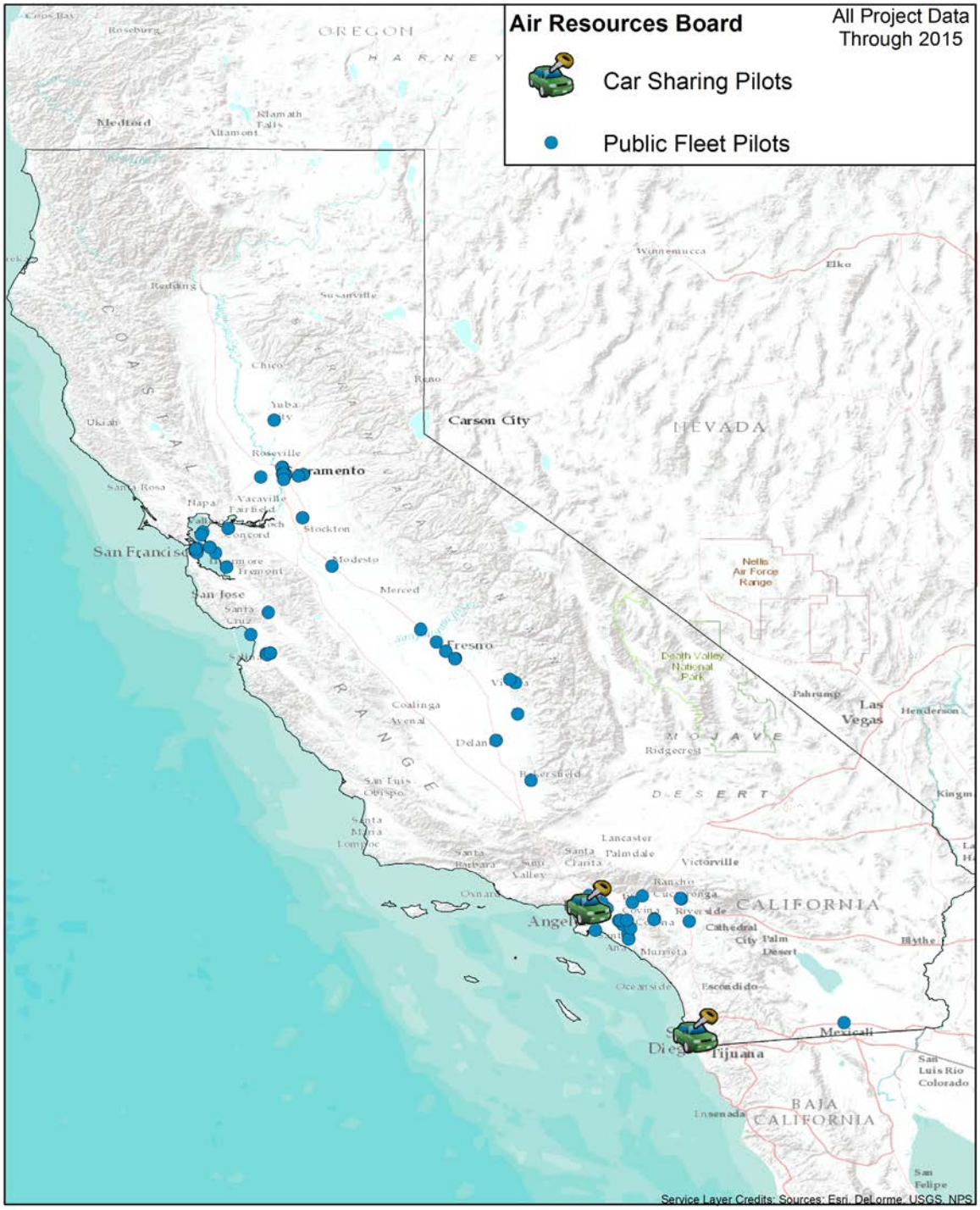


Figure 19: Car Sharing and Public Fleet Pilot Project Locations



INVESTMENTS IN ENERGY EFFICIENCY AND CLEAN ENERGY

$320M APPROPRIATED THROUGH 2015

In October 2015, the Governor signed SB 350, which requires the State to double building energy efficiency and increase renewable energy to 50 percent by 2030. California Climate Investments provide funding for energy efficiency and clean energy generation, as well as reduced energy and water use through installation of more efficient appliances, agricultural irrigation, and equipment. Residential energy efficiency programs directly support SB 350[9] targets through investments that allow low-income homeowners in disadvantaged communities to improve their homes through weatherization and solar installation projects.

These investments provide a variety of benefits including: energy savings, renewable energy generation, employment opportunities, job training, and improved air quality throughout the State.

Four agencies are implementing California Climate Investments in energy efficiency and clean energy. Agency investments are described below; in some cases these investments are allocated to multiple sub-programs. For more information about the details of a specific program or sub-program, please visit: www.arb.ca.gov/cc/capandtrade/auctionproceeds/ggrfprogrampage.htm#Energy.

ROOFTOP SOLAR (CSD)

Solar photovoltaics in disadvantaged communities.

COMPLETION SPRING 2017

$ 22,300,000 (GGRF)

Estimated Reduction of 87,500–125,000 $MTCO_2e$

Up to 2,000 dwellings upgraded

9 De León. Senate Bill No. 350, Chapter 547. Clean Energy and Pollution Reduction Act of 2015. October 7, 2015

CONTINUOUSLY APPROPRIATED: N/A
APPROPRIATED THROUGH FY 2015-16: $154M

DEPARTMENT OF COMMUNITY SERVICES AND DEVELOPMENT (CSD) LOW INCOME WEATHERIZATION PROGRAM

Reduces GHGs by installing energy efficiency or renewable energy measures for low-income dwellings in disadvantaged communities. The program is comprised of three components, the Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating program, the Single-Family Solar Photovoltaics program, and the Large Multi-Family Energy Efficiency and Renewables program.

Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating

ALLOCATED THROUGH 2015: $24M
AWARDED THROUGH 2015: $24M
IMPLEMENTED THROUGH 2015: $1.1M
1,543 PROJECTS IMPLEMENTED

Provides single-family and small multi-family low-income homes with weatherization and energy efficiency measures that include: weather-stripping, insulation, caulking, water heater blankets, fixing or replacing windows, refrigerator replacement, water heater repair/replacement, heating and cooling system repair/replacement, and solar water heaters. These measures improve home comfort and allow for savings on energy costs. CSD has awarded funds to a network of local providers to provide services throughout California.

Estimated GHG Reductions
Based on estimated energy savings from weatherization and solar water heating over the project life.

Disadvantaged Community Benefits
Projects provide energy efficiency improvements and renewable energy for disadvantaged community residents.

Co-Benefits
Examples include: energy savings, employment opportunities, job training, and improved living conditions.

Based on $24M of Awarded Funds

REDUCTIONS

50,000-120,000 $MTCO_2e$
Over 10-20 Years

Based on $1.1M of Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES

100%
of Implemented Projects

$1.1M
in Funding

1,543
Projects

IN DISADVANTAGED COMMUNITIES

100%
of Implemented Projects

$1.1M
in funding

1,543
Projects

Single-Family Solar Photovoltaics

ALLOCATED THROUGH 2015: $22.3M
AWARDED THROUGH 2015: $22.3M
IMPLEMENTED THROUGH 2015: $6.3M
582 PROJECTS IMPLEMENTED

Provides low-income, single-family homes with solar photovoltaic systems to lower cost barriers to renewable solar energy. CSD has awarded funds to a service provider program administrator to install systems throughout California, and to a pilot program serving six counties.

Estimated GHG Reductions
Based on estimated energy savings from solar photovoltaics over the project life.

Disadvantaged Community Benefits
Projects provide energy efficiency improvements and renewable energy for disadvantaged community residents.

Co-Benefits
Examples include: energy savings, improved building heating and cooling, employment opportunities, and job training.

Based on $22.3M of Awarded Funds

REDUCTIONS

88,000 – 125,000 $MTCO_2e$

Over 25 Years

Based on $6.3M of Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES

100%

of Implemented Projects

$6.3M

in Funding

582

Projects

IN DISADVANTAGED COMMUNITIES

100%

of Implemented Projects

$6.3M

in funding

582

Projects

Large Multi-Family Energy Efficiency and Renewables

ALLOCATED THROUGH 2015: $24M
AWARDED THROUGH 2015: $24M
IMPLEMENTED THROUGH 2015: NONE

Provides multi-family, low-income homes with weatherization and energy efficiency measures that may include: weather-stripping, insulation, caulking, water heater blankets, fixing or replacing windows, refrigerator replacement, water heater repair/replacement, heating and cooling system repair/replacement, solar water heaters, and solar photovoltaics systems. These measures improve home comfort and allow for savings on energy costs. CSD has selected a service provider to administer the program throughout California.

Estimated GHG Reductions
Based on estimated energy savings from weatherization and solar renewables over the project life.

Disadvantaged Community Benefits
In some cases agencies are implementing funds but do not yet have spatial data for verification so the values below do not represent the full extent to which projects are providing benefits to disadvantaged communities. Once fully implemented, 100 percent of these projects are expected to provide benefits to disadvantaged communities.

Co-Benefits
Examples include: energy savings, employment opportunities, job training, and improved living conditions.

Based on $0M of Awarded Funds

REDUCTIONS

45,000 – 90,000 $MTCO_2e$
Over 10-20 Years

Based on $0M of Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES

TBD
of Implemented Projects

TBD
in Funding

TBD
Projects

IN DISADVANTAGED COMMUNITIES

TBD
of Implemented Projects

TBD
in funding

TBD
Projects

Figure 20: Energy Efficiency and Solar Water Heating Project Locations

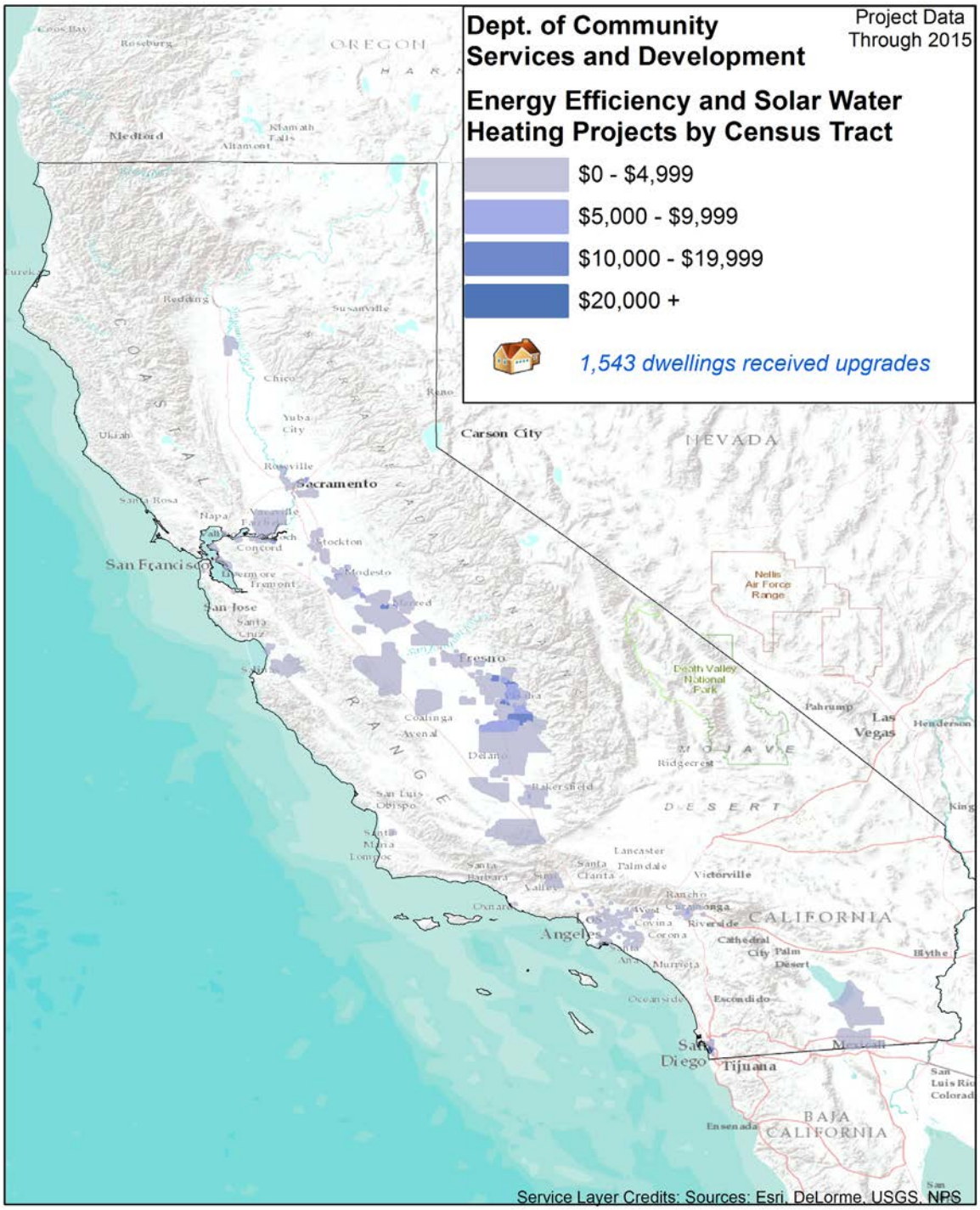
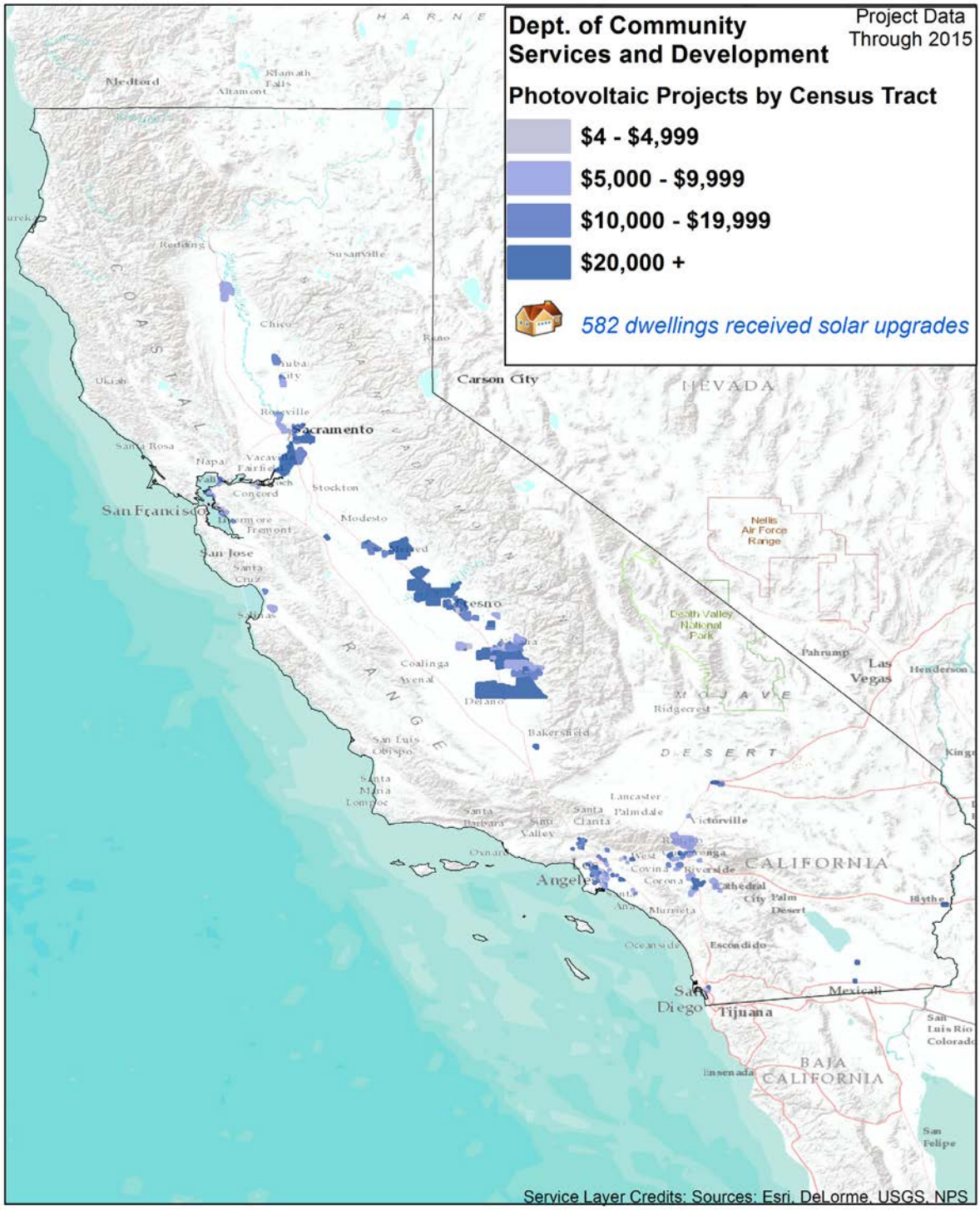


Figure 21: Solar Photovoltaics Project Locations



Pending[10]

CONTINUOUSLY APPROPRIATED: N/A
APPROPRIATED THROUGH FY 2015-16: $20M
AWARDED THROUGH 2015: NONE
IMPLEMENTED THROUGH 2015: NONE

CALIFORNIA ENERGY COMMISSION (CEC) ENERGY EFFICIENCY FOR PUBLIC BUILDINGS

Established to fund energy efficiency and energy generation projects in public buildings owned and operated by a State agency or entity. This program is on hold subject to legislation and budget changes.

Estimated GHG Reductions
TBD

Disadvantaged Community Benefits
TBD

Co-Benefits
TBD

Based on $0M of Awarded Funds

REDUCTIONS

0

Based on $0M of Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES

0%
of Implemented Projects

$0
in Funding

0
Projects

IN DISADVANTAGED COMMUNITIES

0%
of Implemented Projects

$0
in funding

0
Projects

10 Although funding for public buildings was initially appropriated to the California Energy Commission, the Administration has proposed in the FY 2016-17 Budget to have Department of General Services administer this program. The California Energy Commission did not receive any GGRF funding in FY 2014-15 or 2015-16.

CALIFORNIA DEPARTMENT OF FOOD & AGRICULTURE

CONTINUOUSLY APPROPRIATED: N/A
APPROPRIATED THROUGH FY 2015-16: $75M

CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE (CDFA) CLIMATE SMART AGRICULTURE

Invests in competitive projects that reduce GHGs through increased efficiency in the agricultural sector. The program is comprised of two components, the Dairy Digester Research and Development Program and the State Water Efficiency and Enhancement Program.

Dairy Digester Research and Development Program (DDRDP)

ALLOCATED THROUGH 2015: $11.1M
AWARDED THROUGH 2015: $11.1M
IMPLEMENTED THROUGH 2015: $11.1M
5 PROJECTS IMPLEMENTED

Provides grants for dairy digesters that reduce methane emissions from dairy waste in California, and to better understand the scientific and technical aspects of dairy digesters and methods to enhance their economic feasibility.

Estimated GHG Reductions
Based on estimates of methane emissions from manure captured by a digester.

Disadvantaged Community Benefits
Projects provide environmental improvements for disadvantaged community residents.

Co-Benefits
Examples include: renewable energy generation; odor reduction; pathogen reduction; enhanced nutrient management, such as potential for use of digested manure by-product as fertilizer, and stabilization of organic material.

Based on $11.1M of Awarded Funds

REDUCTIONS

1,377,000 $MTCO_2e$

Over 10 Years

Based on $11.1M of Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES

100%

of Implemented Projects

$11.1M

in Funding

5

Projects

IN DISADVANTAGED COMMUNITIES

100%

of Implemented Projects

$11.1M

in funding

5

Projects

State Water Efficiency and Enhancement Program (SWEEP)

ALLOCATED THROUGH 2015: $18.1M
AWARDED THROUGH 2015: $18.1M
IMPLEMENTED THROUGH 2015: $18.1M
233 PROJECTS IMPLEMENTED

Provides for investment in irrigation and water pumping systems that reduce water use, energy use, and GHG emissions from agricultural operations.

Estimated GHG Reductions
Based on fuel savings after project installation.

Disadvantaged Community Benefits
Projects increase water and energy efficiency in disadvantaged communities.

Co-Benefits
Examples include: water savings; reduced energy costs; improved air quality; and protection of water quality.

Based on $18.1M of Awarded Funds

REDUCTIONS

552,000 $MTCO_2e$

Over 10-15 years

Based on $18.1M of Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES

40%

of Implemented Projects

$7.3M

in Funding

86

Projects

IN DISADVANTAGED COMMUNITIES

40%

of Implemented Projects

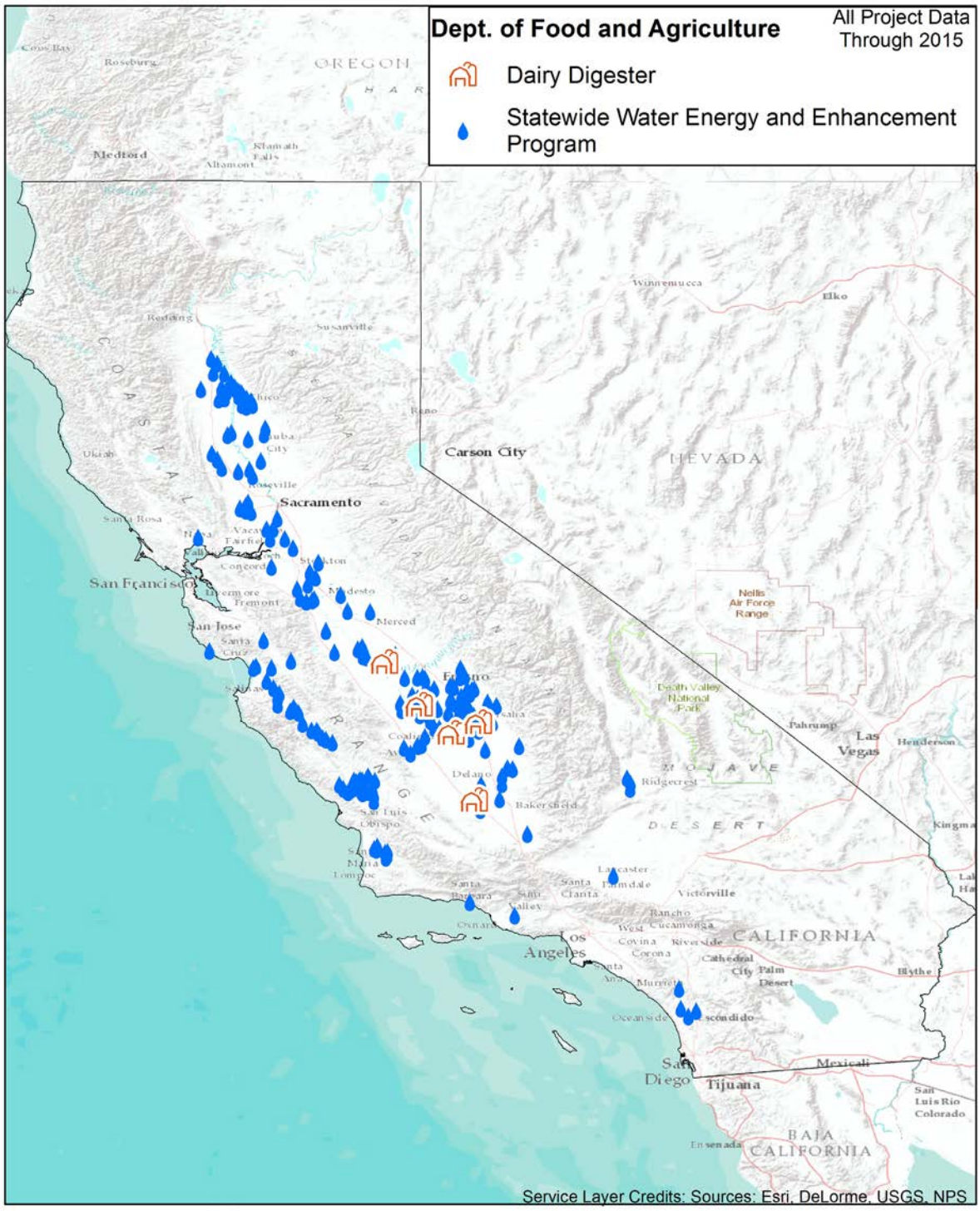
$7.3M

in funding

86

Projects

Figure 22: Dairy Digester Research and Development Program and State Water Efficiency and Enhancement Program Project Locations



CONTINUOUSLY APPROPRIATED: N/A
APPROPRIATED THROUGH FY 2015-16: $70M

DEPARTMENT OF WATER RESOURCES
WATER ENERGY EFFICIENCY PROGRAM

Provides grants to implement efficiencies that reduce GHG emissions. The program is comprised of two components, the Water-Energy Grant program and the Turbines program.

Water-Energy Grant Program

ALLOCATED THROUGH 2015: $50M
AWARDED THROUGH 2015: $27.8M
IMPLEMENTED THROUGH 2015: NONE

Provides funds to implement residential, commercial, or institutional water efficiency programs or projects that reduce GHGs, water use, and energy use. DWR has selected grantees to implement projects.

Estimated GHG Reductions
Based on calculations of user-defined inputs for water savings, energy savings, and GHG emissions reductions over the project life for various appliances.

Disadvantaged Community Benefits
In some cases agencies are implementing funds but do not yet have spatial data for verification so the values below do not represent the full extent to which projects are providing benefits to disadvantaged communities.

Co-Benefits
Examples include water and energy savings.

Based on $27.8M of Awarded Funds

REDUCTIONS

197,000 $MTCO_2e$
Over 30 Years

Based on $0M of Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES

TBD
of Implemented Projects

TBD
in Funding

TBD
Projects

IN DISADVANTAGED COMMUNITIES

TBD
of Implemented Projects

TBD
in funding

TBD
Projects

Turbines

ALLOCATED THROUGH 2015: $20M
AWARDED THROUGH 2015: $20M
IMPLEMENTED THROUGH 2015: $3.5M
2 PROJECTS IMPLEMENTED

Provides for replacement/retrofit of two hydroelectric turbine runners and rehabilitation of turbine-generator auxiliaries (Hyatt Power Plant Unit 1 & Thermalito Hydro Plant Unit 1) on the State Water Project to increase water-energy efficiency and plant availability. Both projects will improve generation efficiency and availability, and will produce additional clean energy without increasing water use.

Estimated GHG Reductions
TBD[11]

Disadvantaged Community Benefits
Not applicable.

Co-Benefits
Examples include water and energy savings.

11 ARB and DWR are working to finalize quantification of GHG reductions for the turbine projects and will include project-level data in the supplemental material to be posted online.

Based on $20M of Awarded Funds

REDUCTIONS

TBD

Based on $3.5M of Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES

0%
of Implemented Projects

$0M
in Funding

0
Projects

IN DISADVANTAGED COMMUNITIES

0%
of Implemented Projects

$0M
in funding

0
Projects

Figure 23: Water Energy Grant Program and Turbines Project Locations

INVESTMENTS IN NATURAL RESOURCES AND WASTE DIVERSION

$100M APPROPRIATED THROUGH 2015

California's natural and working lands comprise three-quarters of the land base statewide. These lands provide food, fiber, and a variety of ecosystem services including important opportunities for climate mitigation that reduce GHG emissions from wildfire and land conversion, and store carbon in biomass and soils. Furthermore, protecting these lands from conversion to more carbon-intensive uses, such as residential and commercial development, also serves to promote infill development that reduces VMT, infrastructure expansion, and the associated GHG emissions. Investments in natural resources can also help protect against the impacts of future climate change. In addition, investments in organic waste management and waste diversion reduce GHG emissions as well as criteria and toxic air pollutants by reducing the amount of municipal solid waste that is disposed of in landfills.

These investments provide a variety of benefits including: habitat restoration, flood protection for local communities, enhanced water quality and increased water storage, improved soil health, reduced air pollution, erosion control, fire resistance, employment opportunities, and renewable energy generation.

Three agencies are implementing California Climate Investments in natural resources and waste diversion. Agency investments are described below; in some cases these investments are allocated to multiple sub-programs.

For more information about the details of a specific program or sub-program, please visit: www.arb.ca.gov/cc/capandtrade/auctionproceeds/ggrfprogrampage.htm#ResourcesandWaste.

ELKHORN SLOUGH WETLAND RESTORATION (DFW)

Carbon sequestration through wetlands restoration.

$ 3,000,000 (GGRF)

Estimated Reduction of 13,000 $MTCO_2e$

66 acres restored

CONTINUOUSLY APPROPRIATED: N/A
APPROPRIATED THROUGH FY 2015-16: $27M

DEPARTMENT OF FISH AND WILDLIFE (DFW) WETLANDS AND WATERSHED RESTORATION

Implements projects that provide carbon sequestration benefits through restoration or enhancement of Sacramento-San Joaquin Delta wetlands, coastal wetlands, and mountain meadow ecosystems. The program is comprised of two components, the Sacramento-San Joaquin Delta and Coastal Wetlands program and the Mountain Meadow Ecosystems program.

Sacramento-San Joaquin Delta and Coastal Wetlands Restoration

ALLOCATED THROUGH 2015: $15.4M
AWARDED THROUGH 2015: $15.4M
IMPLEMENTED THROUGH 2015: $15.4M
4 PROJECTS IMPLEMENTED

Projects restore or enhance Sacramento-San Joaquin Delta and coastal wetlands and achieve GHG reductions through carbon sequestration and avoided emissions.

Estimated GHG Reductions
Based on estimates of net GHG emission reductions and carbon sequestration in biomass and soil, and reduced methane emissions over the project life.

Disadvantaged Community Benefits
Projects provide green space or open space.

Co-Benefits
Examples include: habitat restoration and enhancement; improved habitat connectivity; improved flood protection for local communities; reduction or reversal of land subsidence; protection and improvement of water quality through filtration and pollution reduction; and enhanced climate readiness.

Based on $15.4M of Awarded Funds

REDUCTIONS

519,000 $MTCO_2e$

at Least 25-50 Years

Based on $15.4M of Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES

87%

of Implemented Projects

$13.4M

in Funding

2

Projects

IN DISADVANTAGED COMMUNITIES

87%

of Implemented Projects

$13.4M

in funding

2

Projects

Mountain Meadow Ecosystems Restoration

ALLOCATED THROUGH 2015: $5.9M
AWARDED THROUGH 2015: $5.9M
IMPLEMENTED THROUGH 2015: $5.9 M
8 PROJECTS IMPLEMENTED

Projects restore or enhance mountain meadow ecosystems and reduce GHGs through carbon sequestration and avoided emissions.

Estimated GHG Reductions
Based on estimates of net GHG emission reductions and carbon sequestration in biomass and soil, and reduced methane emissions over the project life.

Disadvantaged Community Benefits
Not applicable.

Co-Benefits
Examples include: habitat restoration and enhancement; reduction and delay of peak flows within and downstream of mountain meadows; increased late season flows downstream of mountain meadows; increased water storage capacity in mountain meadows; and protect and provide climate refugia.

Based on $5.9M of Awarded Funds

REDUCTIONS

52,000 $MTCO_2e$

at Least 25-50 Years

Based on $5.9M of Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES

0%

of Implemented Projects

$0M

in Funding

0

Projects

IN DISADVANTAGED COMMUNITIES

0%

of Implemented Projects

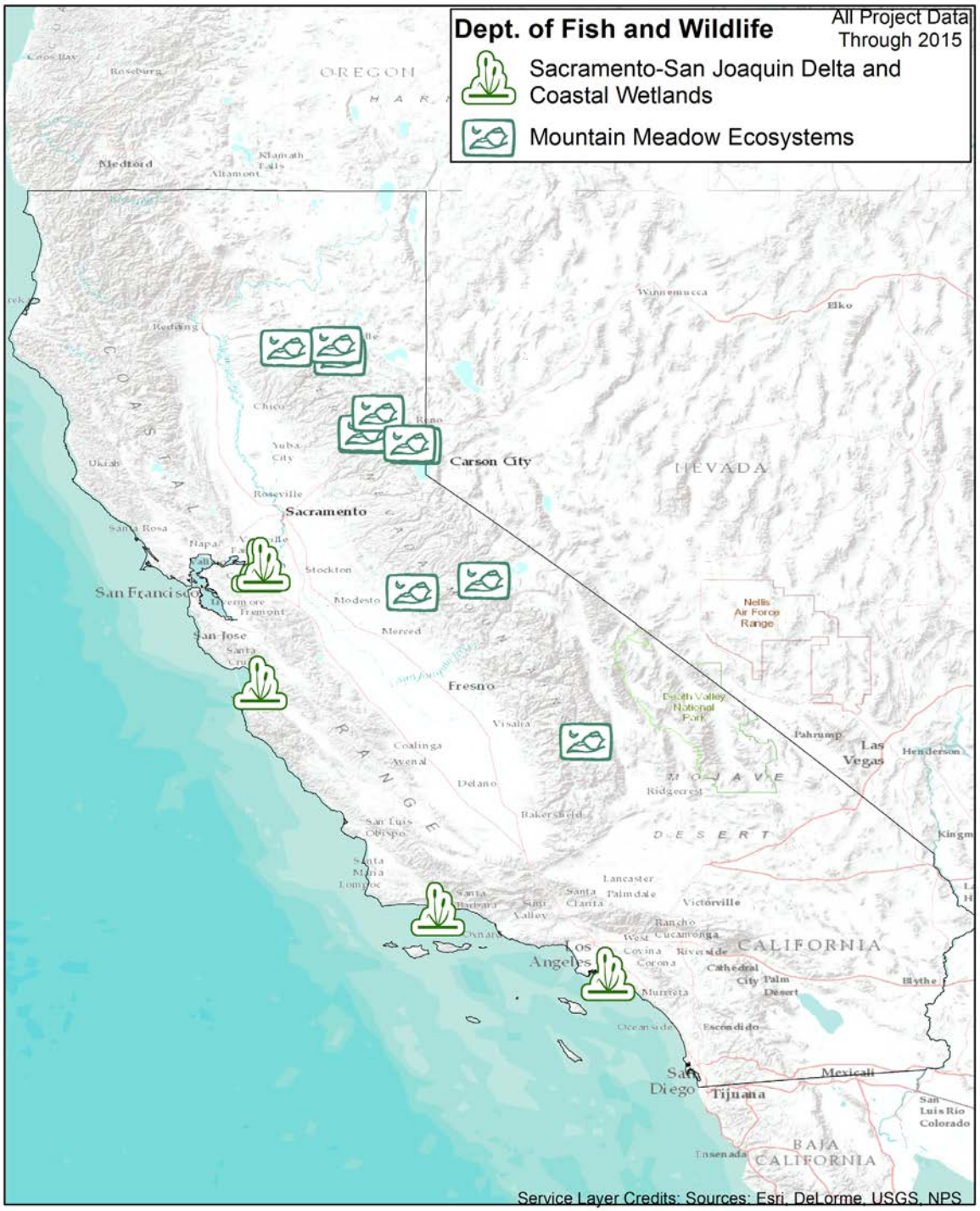
$0M

in funding

0

Projects

Figure 24: Wetlands and Watershed Restoration Project Locations



CONTINUOUSLY APPROPRIATED: N/A
APPROPRIATED THROUGH FY 2015-16: $42M

DEPARTMENT OF FORESTRY AND FIRE PROTECTION (CAL FIRE) SUSTAINABLE FORESTS

Funds forest health restoration and reforestation projects statewide and implements urban forests in disadvantaged communities to increase carbon sequestration. Sustainable Forests is comprised of 3 programs: the Forest Health Program, the Forest Legacy Program, and the Urban Forest Program.

Forest Health Program

ALLOCATED THROUGH 2015: $20M
AWARDED THROUGH 2015: $7.7M
IMPLEMENTED THROUGH 2015: $7.7M
27 PROJECTS IMPLEMENTED

The Forest Health Program is comprised of 5 sub-programs that include:

1. California Forest Improvement Program (CFIP) Reforestation;
2. Watershed Reforestation and Restoration;
3. Forest Pest Control; and
4. Demonstration State Forest Research.
5. Fuels Reduction

Estimated GHG Reductions

Based on estimated net GHG emission reductions and carbon sequestration on reforested lands and forests treated to prevent the spread of pests and disease.

Disadvantaged Community Benefits

Not applicable.

Co-Benefits

Examples include: water quality improvement; habitat improvement; erosion control; fire avoidance/hazard control; reduction of forest pest and diseases; increased biological diversity; employment opportunities and economic development opportunities; public education opportunities; preservation of indigenous culture; and protection of community assets.

Based on $7.7M of Awarded Funds

REDUCTIONS

2,046,000 $MTCO_2e$

Over 50-80 Years

Based on $7.7M of Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES

0%

of Implemented Projects

$0M

in Funding

0

Projects

IN DISADVANTAGED COMMUNITIES

0%

of Implemented Projects

$0M

in funding

0

Projects

Forest Legacy Program

ALLOCATED THROUGH 2015: $4.2M
AWARDED THROUGH 2015: $4M
IMPLEMENTED THROUGH 2015: $4M
4 PROJECTS IMPLEMENTED

Protects forestland threatened with conversion to non-forest uses that emit, rather than sequester, GHGs.

Estimated GHG Reductions
Based on estimated carbon stored in forests protected from conversion threats.

Disadvantaged Community Benefits
Not applicable.

Co-Benefits
Examples include: water quality improvement; habitat improvement; erosion control; employment opportunities and economic development opportunities; increased fire hazard control; reduction of forest pest and diseases; and increased aesthetic value.

Based on $4M of Awarded Funds

REDUCTIONS

387,000 $MTCO_2e$

Over 10 Years

Based on $4M of Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES

0%

of Implemented Projects

$0M

in Funding

0

Projects

IN DISADVANTAGED COMMUNITIES

0%

of Implemented Projects

$0M

in funding

0

Projects

Urban and Community Forestry Program

ALLOCATED THROUGH 2015: $17.8M
AWARDED THROUGH 2015: $15.6M
IMPLEMENTED THROUGH 2015: NONE

The Urban and Community Forestry Program is comprised of 4 sub-programs that include:

1. Green Trees For The Golden State;
2. Green Innovations and Woods In The Neighborhood;
3. Urban Forest Management Activities; and
4. Urban Wood and Biomass.

Estimated GHG Reductions
Based on estimated net GHG emission reductions and carbon sequestration of planted trees, energy savings from tree shade, and utilization of biomass.

Disadvantaged Community Benefits
Projects provide environmental improvements for disadvantaged community residents. In some cases agencies are implementing funds but do not yet have spatial data for verification so the values here do not represent the full extent to which projects are providing benefits to disadvantaged communities. Once fully implemented, 100 percent of these projects are expected to provide benefits to disadvantaged communities.

Co-Benefits
Examples include: improved air, soil, and water quality; improved public health outcomes; improved urban forest management; reduced storm-water runoff; reduced urban heat island effect; energy conservation; and employment opportunities.

Based on $15.6M of Awarded Funds

REDUCTIONS

134,000 $MTCO_2e$
Over 40 Years

Based on $0M of Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES

TBD
of Implemented Projects

TBD
in Funding

TBD
Projects

IN DISADVANTAGED COMMUNITIES

TBD
of Implemented Projects

TBD
in funding

TBD
Projects

MODESTO TREE PLANTING ACTIVITY (CAL FIRE)

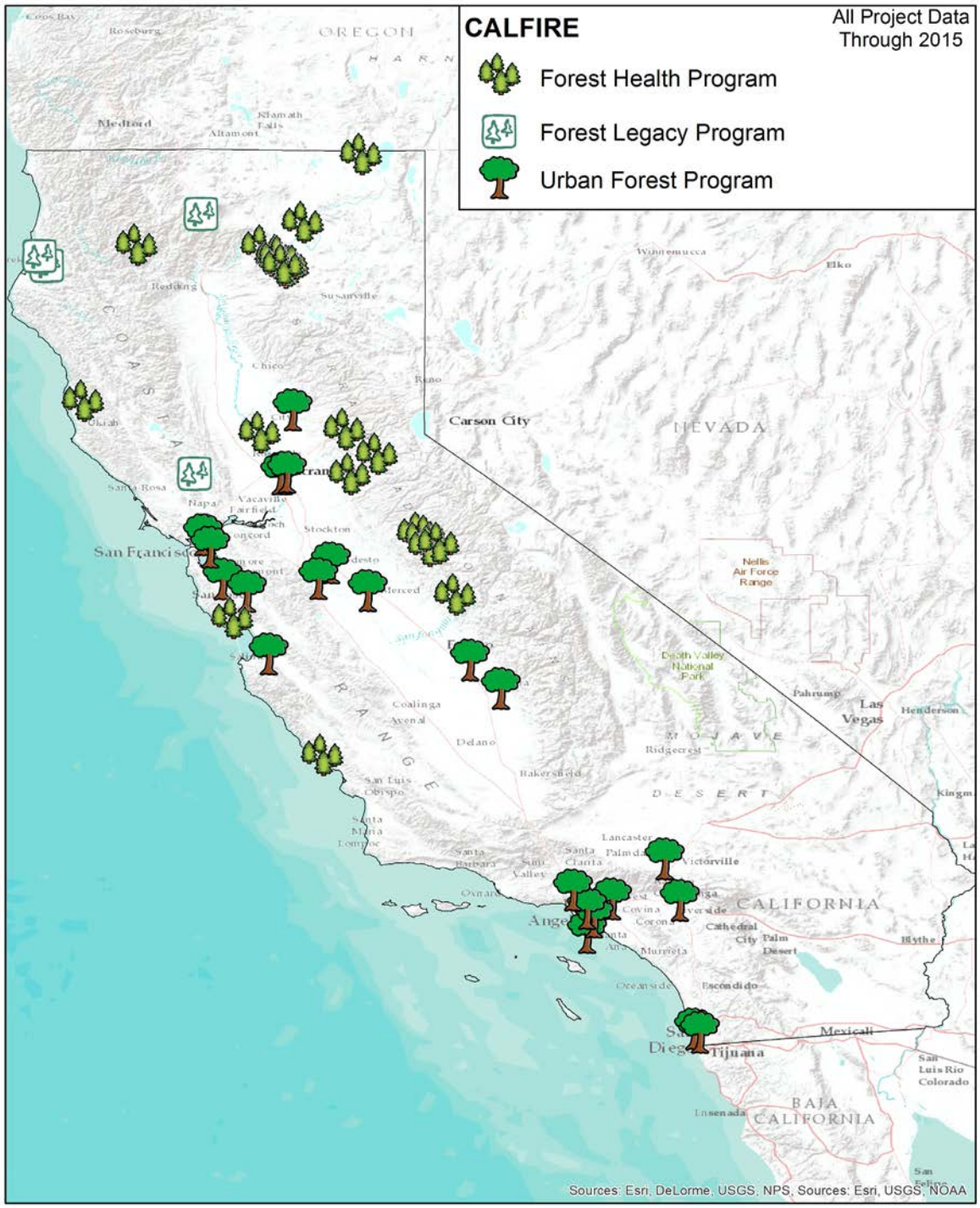
Planting of trees in disadvantaged communities in Modesto

$ 327,000 (GGRF)

Estimated Reduction of 23,000 $MTCO_2e$

5,000 Trees

Figure 25: Sustainable Forest Project Locations



CalRecycle

CONTINUOUSLY APPROPRIATED: $N/A
APPROPRIATED THROUGH FY 2015-16: $31M

DEPARTMENT OF RESOURCES RECYCLING
AND RECOVERY (CALRECYCLE)
WASTE DIVERSION

Offers funding to assist public and private entities in the safe and effective management of the waste stream. Investments support financial incentives for capital investments in composting/anaerobic digestion infrastructure and recycling manufacturing facilities that divert waste from landfills. The program is comprised of three components, Organics Composting/Digestion Grants, the Recycling Manufacturing program, and the Organics and Recycling Project Loans. CalRecycle's solicitation for FY 2015-16 for $5 million in loans is pending.

Organics Composting/Digestion Grants

ALLOCATED THROUGH 2015: $14.5M
AWARDED THROUGH 2015: $14.5M
IMPLEMENTED THROUGH 2015: $14.5M
5 PROJECTS IMPLEMENTED

Expands capacity or establishes new facilities to reduce the amount of California-generated green materials, food materials, and/or alternative daily cover sent to landfills.

Estimated GHG Reductions
Based on estimated avoided landfill methane emissions and renewable energy generation.

Disadvantaged Community Benefits
Projects provide environmental improvements and, in some cases, economic opportunities for disadvantaged community residents.

Co-Benefits
Examples include: reduction in air pollutants and odors; improved soil health; decreased soil erosion; improved water quality; increased water conservation; decreased synthetic fertilizer use; improved soil health; biofuels production; and employment opportunities.

Based on $14.5M of Awarded Funds

REDUCTIONS

1,658,000 $MTCO_2e$

Over 10 Years

Based on $14.5M of Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES

100%

of Implemented Projects

$14.5M

in Funding

5

Projects

IN DISADVANTAGED COMMUNITIES

61%

of Implemented Projects

$8.9M

in funding

3

Projects

Recycling Manufacturing

ALLOCATED THROUGH 2015: $5M
AWARDED THROUGH 2015: $5M
IMPLEMENTED THROUGH 2015: $5M
3 PROJECTS IMPLEMENTED

Expands existing capacity or establishes new facilities that use California-generated post-consumer recycled fiber (paper, textiles, carpet, or wood), plastic, or glass to manufacture products.

Estimated GHG Reductions
Based on estimated energy savings from using recycled materials to create new products.

Disadvantaged Community Benefits
TBD

Co-Benefits
Examples include: reduction in air pollutants; avoided impacts from virgin material extraction; and employment opportunities.

Based on $5M of Awarded Funds

REDUCTIONS

323,000 $MTCO_2e$

Over 10 Years

Based on $5M of Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES

TBD

of Implemented Projects

TBD

in Funding

TBD

Projects

IN DISADVANTAGED COMMUNITIES

TBD

of Implemented Projects

TBD

in funding

TBD

Projects

Organics and Recycling Project Loans

ALLOCATED THROUGH 2015: $1.7M
AWARDED THROUGH 2015: $1.7M
IMPLEMENTED THROUGH 2015: $1.7M
2 PROJECTS IMPLEMENTED

Expands existing capacity or establishes new facilities to reduce the amount of California-generated green materials, food materials, and/or alternative daily cover sent to landfills.

Estimated GHG Reductions
Based on estimated avoided landfill methane emissions, generation of renewable energy, and energy savings from production of new products from recycled materials.

Disadvantaged Community Benefits
TBD

Co-Benefits
Examples include: increased diversion of food and green waste; water conservation; production of compost; and employment opportunities.

Based on $1.7M of Awarded Funds

REDUCTIONS

470,000 $MTCO_2e$

Over 10 Years

Based on $1.7M of Implemented Funds

BENEFITING DISADVANTAGED COMMUNITIES

TBD

of Implemented Projects

TBD

in Funding

TBD

Projects

IN DISADVANTAGED COMMUNITIES

TBD

of Implemented Projects

TBD

in funding

TBD

Projects

Figure 26. Waste Diversion Project Locations

APPENDIX A

List of Funded Projects (as of December 2015)

Project Name	Project Description	Location by County	GGRF Funding ($)
High Speed Rail Authority			
High Speed Rail			
High Speed Rail Project	Planning, designing and constructing rail service from San Francisco to the Los Angeles basin.	Various	$850,000,000
California State Transportation Agency			
Transit and Intercity Rail Capital Program			
Antelope Valley Transit Authority	Purchase of at least 29 electric buses to develop bus rapid transit (BRT) featuring increased service frequency, as well as electrification of at least two long-distance commuter routes.	Los Angeles	$24,403,000
Capitol Corridor Joint Powers Authority	Partners with Union Pacific Rail Road and Altamont Corridor Express on track and curve improvements that will result in faster journeys and ridership increases. Travel time savings estimated of up to 10 minutes.	Contra Costa, Santa Clara, Alameda	$4,620,000
Los Angeles MTA (Metro)	Infrastructure improvements to a major transfer station including upgrades to the signal and crossover system and near downtown storage capacity will allow increased service frequency, more reliable service, improve safety and connectivity.	Los Angeles	$38,494,000
LOSSAN Rail Corridor Agency	Collaborative effort among transit agencies to demonstrate the ability to increase use of transit for access to and from intercity rail services through the use of seamless ticketing and transfer policies, combined with free or discounted transfers.	San Luis Obispo, Orange, Los Angeles, Santa Barbara, Ventura, San Diego	$1,675,000

Project Name	Project Description	Location by County	GGRF Funding ($)
Monterey-Salinas Transit	Renovation and expansion of an existing maintenance facility to reduce buses traveling without carrying passengers resulting in fuel savings and more frequent transit service using a new zero-emission bus in a heavily traveled corridor.	Monterey	$10,000,000
Orange County Transportation Authority	Purchase of five 40-foot compressed natural gas (CNG) buses to launch BRT, increasing mode share to transit by providing a frequent limited stop service in a busy corridor.	Orange, Los Angeles	$2,320,000
Sacramento Regional Transit District	Refurbishment of 7 vehicles in order to support 15 min peak hour service frequencies throughout the RT light rail system and enable future limited stop service on the RT Gold and Blue Lines during the next 15 years.	Sacramento	$6,427,000
San Diego Association of Governments	Completes a higher-speed BRT route with service as frequent as every 15 minutes. Includes a new intermodal transportation center and the purchase of 15 60-foot, low-floor articulated CNG buses.	San Diego	$4,000,000
San Diego Metropolitan Transit System	Provides a new trolley station and includes the purchase of at least 8 new trolley vehicles that will provide additional service and increased ridership, addressing overcrowded conditions on the current system.	San Diego	$31,936,000
San Francisco Municipal Transportation Agency	The purchase of 8 zero-emission light rail vehicles to allows for an increase of capacity and frequency on the system to accommodate increased ridership, especially in peak hours.	San Francisco, San Mateo	$41,181,000
San Joaquin Regional Rail Commission	Installation of wayside power which will eliminate the need for overnight idling of diesel engines during routine maintenance, and result in fewer emissions and less noise pollution.	San Joaquin	$200,000
San Joaquin Regional Transit District	Expands BRT system to improve transit attractiveness through high-frequency, limited-stop BRT services. Provides significant time savings and connectivity compared to current services. Includes the purchase of 12 new diesel-hybrid buses.	San Joaquin	$6,841,000
SCRRA (Metrolink)	Provides cleaner, safer, more reliable and faster travel to current services throughout the entire service area by replacing 7 locomotives, and also acquiring 2 additional locomotives that will be used to increase service and improve safety.	San Bernardino, Riverside, Orange, Los Angeles, Ventura, San Diego	$41,181,000
Sonoma Marin Area Rail Transit	Leverages a one-time opportunity to purchase 3 additional rail cars, allowing additional capacity to be available for weekend, peak period, seasonal and special event demand periods.	Sonoma, Marin	$11,000,000
California Department of Transportation			
Low Carbon Transit Operations Program			
Mendocino	Reduced Fare Project for college students	Mendocino	$31,142
Redding Area Bus Authority	Expansion of Express Services	Shasta	$62,657
Tehama County	Bus Shelter Installation Project	Tehama	$20,762
Trinity County	Increase Awareness of Transit System	Trinity	$4,618
City of Auburn	Bus Shelter Construction	Placer	$3,782
Unitrans	City of Davis weekend service expansion	Yolo	$30,977
E-Tran	E-Tran Local Route 156 Service Frequency Improvements	Sacramento	$59,300
Roseville Transit	Louis Orlando Transfer	Placer	$45,465

Project Name	Project Description	Location by County	GGRF Funding ($)
Colusa County Transit	Free Fare Day Program	Colusa	$7,438
El Dorado County Transit Authority	Cameron Park Fixed Route Extension	El Dorado	$57,524
County of Nevada	Gold Country Stage	Nevada	$27,626
Placer County Tart	HWY 267 year round	Placer	$38,608
Placer County	Lincoln Saturday Route	Placer	$12,234
Placer County	Rocklin Route	Placer	$10,000
Sacramento Regional Transit District	Bus Route 65 Expansion Operations	Sacramento	$116,751
Sacramento Regional Transit District	Bus Route 25 Enhancement Operations	Sacramento	$45,292
Sacramento Regional Transit District	Connect Card	Sacramento	$75,150
Sacramento Regional Transit District	South Line Phase 2 Operations	Sacramento	$365,969
Tahoe Transportation District	Route 30 Extension	Placer	$34,128
Yolo County Transportation District	Yolo Bus Fare Reduction Program	Yolo	$58,883
Yuba Sutter Transit Authority	North Beale Red Transit Center Enhancement	Yuba	$60,305
Vine Transit	Vine Bus Service to San Francisco ferry in Vallejo	Solano, Napa	$61,689
AC-Transit	Division 3 Re-Opening for service expansion	Contra Costa	$573,226
Contra Costa County Transit Agency v	Martinez Shuttle	Contra Costa	$185,881
City of Fairfield	Bus Stop Improvements	Solano	$98,890
City of Petaluma	Real Time Transit Signage	Sonoma	$1,726
City of Union City	Heavy-Duty Transit Vehicle Procurement	Alameda	$34,267
ECCTA	Expanded service route 201	Contra Costa	$178,646
Golden Gate Bridge, HWY and Transportation District	Central San Rafael/SRTC Commuter Ferry Shuttle	Marin	$261,000
Marin County Transit District	Purchase hybrid Transit Vehicles	Marin	$45,703
Livermore Amador Valley Transit Authority	Purchase IBE (1) 40' Electric /Diesel Hybrid Bus (replacement)	Alameda	$107,192
Peninsula Corridor Joint Powers Board	Electrification Project	San Mateo, Santa Clara, San Francisco	$935,322
San Francisco Bay Area Rapid Transit	Train Car Repair and Maintenance Project	Alameda	$1,596,049
SF Municipal Transportation Agency (SFMTA)	Expanded Service for the 38-R Geary and 44-O'Shaughnessy Lines	San Francisco	$2,592,022

Project Name	Project Description	Location by County	GGRF Funding ($)
Santa Clara Valley Transportation Authority (VTA)	N. 1st St. Light Rail Improvements	Santa Clara	$1,107,878
Santa Clara Valley Transportation Authority (VTA)	Transit Assistance Program (TAP)	Santa Clara	$802,508
Solano County Transit	Curtola Park and Ride Hub Photo Voltaic Panels	Solano	$169,444
Sonoma County Transit	Sonoma Valley Connector	Sonoma	$338,943
Western Contra Costa Transit Authority	Expanded Service Route 11	Contra Costa	$54,247
City of Guadalupe	Transit Expansion	Santa Barbara	$79,756
Monterey Salinas Transit	Transit Services in East Salinas	Monterey	$345,563
San Benito County Local Transportation Authority	Inter-county Service Expansion	San Benito	$18,741
Traffic Solutions	South Coast Transit marketing and Try Transit Program	Santa Barbara	$10,000
Santa Barbara Metropolitan Transit District	SBMTD Line 1&2 A.M. Peak Period Frequency Improvement	Santa Barbara	$101,679
South County Transit (SCT)	SCT operating assistance for new Route 26 service	San Luis Obispo	$97,348
City of Arvin	Free Ride Day for Transit	Kern	$6,878
City of California City	Bus Stop Improvements	Kern	$4,440
City of Clovis Transit	Upgrade Transit Stop	Fresno	$36,902
City of Delano	Bus shelters with solar lighting	Kern	$17,580
Fresno area Express	Increasing Tripper Service	Fresno	$249,311
City of Madera	New Bus Stops and amenities for enhanced transit	Madera	$50,146
City of Shafter	Electric Bus	Tulare	$5,784
City of Taft	Purchase Transit Passes and Tickets For the Promotion To Increase Ridership and Reduce Greenhouse Gases	Kern	$4,913
City of Visalia	Visalia Fresno Shuttle	Tulare	$167,017
City of Wasco	Bus Voucher Program	Kern	$8,622
Fresno County Rural Transit Agency	Green Commuting Zero Emission	Fresno	$69,760
Golden Empire Transit District	Operating Assistance - Expansion	Kern	$177,752
Kern Regional Transit	Bus Stop Enhancements	Kern	$65,035
Kern Regional Transit	Bus Stop Enhancements - McFarland / Tehachapi	Kern	$8,620
Kings County Area Public Transit Agency	Route Expansion	Kings	$51,481
Antelope Valley Transit Authority	Electric Bus Infrastructure Improvements	Los Angeles	$40,687

Project Name	Project Description	Location by County	GGRF Funding ($)
Culver City Bus	Culver City Bus Line 6	Los Angeles	$34,529
City of Gardena	Bus Operation - Line 1X	Los Angeles	$38,999
City of Los Angeles DOT	Bike Racks for Dash Buses	Los Angeles	$214,964
Montebello Bus Lines	MBL Route 10 Rideshare Thursday	Los Angeles	$56,717
City of Norwalk	Student Pass Program	Los Angeles	$5,100
City of Santa Monica's Big Blue Bus	Fixed Route Bus Transit Operations	Los Angeles	$131,075
Foothill Transit	2 Electric bus Charging Stations	Los Angeles	$167,914
Long Beach Public Transportation	Route Extension Project	Los Angeles	$163,267
Los Angeles County Metropolitan Authority	Metro Gold Line Foothill Extension Phase 2 Arcadia to Azusa	Los Angeles	$5,897,391
Southern California Regional Rail Authority (SCRRA)	Metrolink Ticket Vending Machine Replacement and Expansion	Los Angeles	$486,312
Torrance Transit System	Upgrade Bus Bicycle Racks	Los Angeles	$39,556
Ventura County Transportation Commission	Purchase New Transit vehicle for service Expansion	Ventura	$295,041
City of Beaumont Pass Transit	Veteran's Voucher Program	Riverside	$655
Mountain Area Regional Transit Authority (MARTA)	Free Ride Day	San Bernardino	$1,098
Omnitrans	Freeway Express Service	San Bernardino	$54,868
Palo Verde Valley Transit Agency	Bus Stop Improvements including Solar Panels, EV Charging Station and Lighting	Riverside	$8,885
Riverside County Transportation Commission	Perris Valley Line Feeder Bus Service is an expansion of the existing 91 Line - Operating Assistance	Riverside, Orange, Los Angeles	$129,859
Riverside Transit Agency	Perris Valley Line Feeder Bus Service will establish seamless transfers between bus and rail at the new commuter rail stations - Operating Assistance	Riverside	$460,410
Riverside Transit Agency	Vine Street Stop Expansion will expand the bus zone on Vine Street which is next to downtown Metrolink commuter rail station	Riverside	$58,822
SCRRA/Metrolink	Downtown San Bernardino Passenger Rail Project will extend Metrolink regional passenger rail service approximately 1 mile	San Bernardino	$679,599
Sunline Transit Agency	Weekend Frequency Transportation to provide a wider range of travel purposes	Riverside	$155,907
Victor Valley Transit	Fare Media Outreach and Educational Program will expand transportation options available to underserved populations in Victor Valley	San Bernardino	$7,478
Eastern Sierra Transit	Expansion of Mammoth Express fixed Route commuter bus service will serve multiple purposes for the Eastern Sierra region of Inyo and Mono Counties	Inyo	$17,597
Calaveras County	Calaveras Transit Green Tickets will distribute transit vouchers to county citizens who would otherwise use a personal vehicle	Calaveras	$14,549

Project Name	Project Description	Location by County	GGRF Funding ($)
City of Lodi	Free Grapeline Fare Days will increase ridership by 25% and reduce the number of vehicles	San Joaquin	$12,408
City of Modesto	Purchase and Install 14 additional Bus stop shelters in DAC areas	Stanislaus	$183,908
Altamont Corridor Express	Shuttle for Ace passengers and fixed route bus services free of charge	San Joaquin	$14,627
Altamont Corridor Express	Shuttle for Ace passengers and fixed route bus services free of charge	San Joaquin	$39,455
San Joaquin Regional Transit District	Metro Hopper Expansion provides improved service to DAC areas within Stockton	San Joaquin	$221,773
Transit Joint Powers Authority for Merced County	Free-Fare Bus Passes & Promo materials to increase ridership to promote transit	Merced	$90,933
San Diego Metropolitan Transit System	Upgrade transit stops/stations in order to access to Transit Improvements	San Diego	$101,000
San Diego Metropolitan Transit System	El Cajon Transit Center Renovation will upgrade transit stops/stations to support active transportation and encourage ridership	San Diego	$630,000
San Diego Metropolitan Transit System	Old Town Transit Center Renovation will upgrade transit stops/stations to support active transportation and encourage ridership	San Diego	$473,141
OCTA	Funds will be used for marketing and community outreach program to promote Fare Discount	Orange	$1,346,536
Strategic Growth Council			
Affordable Housing and Sustainable Communities Program			
Sylmar Court Apartments	Integrated connectivity infill project with 101 affordable units and retail store located near the Metrolink Sylmar station.	Los Angeles	$2,500,000
Crenshaw Villas	Transit-oriented mixed-used development with 50 housing units, 49 of those designated affordable units for seniors.	Los Angeles	$2,200,000
Anchor Place	Integrated connectivity project with 120 units (119 affordable), on-site amenities, and off-site upgrades to nearby transit.	Los Angeles	$2,441,616
Depot at Santiago	Integrated connectivity project adjacent to the Santa Ana Regional Transit Center consisting of 70 affordable family housing units and upgrades to nearby transportation infrastructure for increased pedestrian safety and use.	Orange	$3,925,000
Mosaic Gardens at Westlake	Integrated connectivity infill project with 125 housing units (123 affordable) that will serve families, seniors, and the chronically homeless.	Los Angeles	$1,900,000
South Bay Bus Rapid Transit (BRT) Project	Integrated connectivity project completing a Bus Rapid Transit route to the Mexican border, providing alternative transportation options to residents and employees.	San Diego	$7,000,000
Mission Bay South Block 6 East	Transit-oriented mixed-used development with 143 affordable housing units, neighborhood retail, and a pedestrian walkway that will link the future Mission Bay Kid's Park with the existing Mission Bay Commons Park.	San Francisco	$4,999,989
El Segundo Family Apartments	Integrated connectivity project with 75 affordable housing units located near transit.	Los Angeles	$1,900,000
127th Street Apartments	Integrated connectivity project with 85 affordable housing units and new pedestrian infrastructure.	Los Angeles	$1,500,000

Project Name	Project Description	Location by County	GGRF Funding ($)
MacArthur Park Apartments Phase B	Transit-oriented mixed-use development project with 82 affordable housing units plus retail space with improved access to the Metro Red and Purple lines.	Los Angeles	$5,000,000; $2,014,560
Delta Lane Affordable Housing and Grand Gateway Transportation Infrastructure	Integrated connectivity mixed-used project consisting of 77 housing units (76 affordable) and retail space. Transportation improvements provide greater alternative transportation options and connectivity to nearby communities.	Yolo	$6,730,888
3706 San Pablo Avenue	Transit-oriented mixed-use infill development project with 87 housing units (86 affordable), on-site amenities, and free transit passes, with transit adjacent to the site.	Alameda	$5,532,400
Civic Center 14 TOD Apartments	Transit-oriented infill development with 40 affordable housing units and improved bicycle access and connectivity to nearby transit.	Alameda	$1,500,000
Eddy & Taylor Family Housing	Transit-oriented development with 103 affordable housing units and upgrades to nearby pedestrian facilities.	San Francisco	$10,000,011; $2,284,965
Hayward Senior Apartments	Transit-oriented mixed-use infill development project with 60 affordable housing units for seniors, commercial space, and pedestrian improvements such as new sidewalks and complete street features.	Alameda	$2,183,000
March Veterans Village	Integrated connectivity project with 138 affordable housing units for veterans.	Riverside	$6,109,114
19th Street Senior Apartments	Integrated connectivity project with 63 affordable housing units for seniors.	Kern	$2,559,394
Truckee Railyard Downtown Corridor Improvements Project	Integrated connectivity project with 81 housing units (61 affordable).	Nevada	$8,000,000
El Cerrito Senior Mixed Use Apartments	Transit-oriented development with 62 affordable housing units for seniors. Project includes on-site amenities and off-site improvements to pedestrian and bicycle infrastructure connecting existing transit stations.	Contra Costa	$5,657,872
Miraflores Senior Housing	Integrated connectivity project with 80 affordable housing units for seniors located near transit.	Contra Costa	$5,077,558
Anchor Village	Transit-oriented mixed-use development project with 51 affordable housing units for underserved individuals with on-site amenities.	San Joaquin	$5,857,096
Central Commons	Integrated connectivity project with 30 affordable single-family, owner-occupied houses.	Alameda	$1,000,000
777 Park Ave	Transit-oriented development with 82 affordable housing units.	Santa Clara	$4,000,000
Hotel Fresno	Integrated connectivity project with 80 housing units (40 affordable).	Fresno	$4,800,000
Vanpool Expansion Project	Integrated connectivity project providing an alternative transportation option for rural farmworkers in Merced, Madera, Fresno, Tulare, Kings, Kern, Monterey, and Imperial Counties.	Multiple	$3,000,000
Westside Infill Transit Oriented Development	Transit-oriented infill development with 92 affordable housing units, bicycle lanes, and pedestrian pathways.	San Diego	$9,240,888
Camino 23	Transit-oriented development with 32 affordable housing units, transit passes for residents, and improvements to pedestrian facilities connected to transit.	Alameda	$3,062,730
Riviera Family Apartments	Transit-oriented development with 58 affordable housing units and improvements to pedestrian facilities.	Contra Costa	$4,277,904; $678,706

Project Name	Project Description	Location by County	GGRF Funding ($)
1st and Soto TOD Apartments	Transit-oriented mixed-use development with 31 affordable housing units, retail space, and outlets for electric vehicle plug in.	Los Angeles	$2,485,440
222 Beale Street	Transit-oriented mixed-use development with 120 affordable housing units, on-site childcare facilities, and improvements to a nearby bus stop shelter.	San Francisco	$6,500,000
Jordan Downs, Phase 1	Integrated connectivity project with 100 affordable housing units in a master-planned community.	Los Angeles	$6,500,000
Rolland Curtis East	Transit-oriented development with 70 affordable housing units.	Los Angeles	$4,000,000
San Leandro Senior	Transit-oriented development with 85 housing units (84 affordable) for seniors and improvements to the San Leandro BART transit station.	Alameda	$7,997,808
Sustainable Agricultural Lands Conservation Program			
Mono County Sustainable Agricultural Land Strategy	Funding to inventory agricultural lands, prioritize highly productive and critically threatened lands, coordinate management across jurisdictions, and develop mitigation strategies.	Mono	$100,000
Butte County Agricultural Land Conservation Strategy	Funding to support existing efforts to reduce greenhouse gas emissions and mitigate the loss of agricultural land. It will coordinate current strategies and develop new strategies to protect, maintain, and enhance agricultural land in the county.	Butte	$100,000
Mendocino County Agricultural Land Conservation Planning Program	Funding to increase Williamson Act Contracts, increase the capacity of local land trusts and agricultural conservation easements programs, prioritize conservation easement acquisitions, and educate the community about agricultural land conservation.	Mendocino	$93,400
Rotational Cover Crop Plan for Pajaro Valley	Funding to develop a community-based rotational cover crop plan to improve the long term viability of local agriculture, keep the most productive land in production, and prioritize the lesser productive lands into voluntary rotational fallowing.	Santa Cruz	$99,095
A Sustainable Agricultural Lands Policy Framework – Southern Santa Clara Valley	The project will create a collaborative and comprehensive strategy to prevent conversion of critical agricultural lands including mapping, modeling and a policy framework that brings together key stakeholders to focus on this critical goal.	Santa Clara	$100,000
SALCP_PP25_Mono[11]	Grant funding for the purchase of an agricultural conservation easement on the ranch.	Mono	$917,500
SALCP_PP22_Marin[1]	Grant funding for the purchase of an agricultural conservation easement on the ranch.	Marin	$490,050
SALCP_PP5_Monterey[1]	Grant funding for the purchase of an agricultural conservation easement on the farm.	Monterey	$392,000
SALCP_PP16a and b_Napa[1]	Grant funding for the purchase of an agricultural conservation easement on the ranch.	Napa	$504,000
SALCP_PP19_Butte and Tehama[1]	Grant funding for the purchase of an agricultural conservation easement on the ranch.	Butte and Tehama	$1,163,000
SALCP_PP11_Lassen[1]	Grant funding for the purchase of an agricultural conservation easement on the farm.	Lassen	$226,500
Air Resources Board			
Clean Vehicle Rebate Project			
Clean Vehicle Rebate Project (CVRP)	Provide rebate incentives for consumers to purchase light duty passenger advanced technology vehicles	Various	$20,000,000

Project Name	Project Description	Location by County	GGRF Funding ($)
Clean Vehicle Rebate Project (CVRP)	Provide rebate incentives for consumers to purchase light duty passenger advanced technology vehicles	Various	$109,483,000
Clean Vehicle Rebate Project (CVRP)	Provide rebate incentives for consumers to purchase light duty passenger advanced technology vehicles	Various	$75,000,000
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project			
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	Voucher Incentive program to introduce clean, low-carbon hybrid and electric medium-to heavy- duty trucks and buses into CA fleets by reducing the cost of these vehicles	Various	$10,000,000
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	Voucher incentive program to introduce clean, low-carbon hybrid and electric medium-to heavy- duty trucks and buses into CA fleets by reducing the cost of these vehicles	Various	$4,931,000
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	Voucher incentive program to introduce clean, low-carbon hybrid and electric medium-to heavy- duty trucks and buses into CA fleets by reducing the cost of these vehicles	Various	$5,000,000
Car Sharing Mobility Options in Disadvantaged Communities			
City of Los Angeles Car Sharing Pilot Project	Places 100 BEV/PHEVs (50 BEV, 30 PHEV, 20 Hybrid) and 110 Level 2 EVSE in top 10% DCs serving over 7,000 Disadvantaged Community participants.	Los Angeles	$1,669,343
San Diego Association of Governments Car Sharing Pilot Project	Expands existing free-floating 400 full electric vehicle sharing system (trips can end anywhere in service area) to top 10% DCs Barrio Logan and Logan Heights DCs.	San Diego	$300,000
Enhanced Fleet Modernization Program Plus-Up			
EFMP Plus-Up	Voluntary Vehicle Retirement	Various	$2,000,000
EFMP Plus-Up	Voluntary Vehicle Retirement	Various	$10,000,000
Public Fleets for Disadvantaged Communities			
Public Fleet Pilot Project (PFPP)	Incentivize public light duty fleets to transition to advanced clean vehicles	Various	$2,877,000
Light Duty Finance Assistance Pilot to Benefit Disadvantaged Communities			
Financing Assistance	Combination of a price buy down ($2,500-$5,000) and a Loan Loss Reserve for low-income Disadvantaged Community consumer to purchase and advanced technology vehicle	Various	$932,457
Advanced Technology Demonstration Projects in Disadvantaged Communities			
Not Reported			$75,000,000
Department of Community Services and Development			
Low Income Weatherization Program			

Project Name	Project Description	Location by County	GGRF Funding ($)
Family/Small Multi-Family Energy Efficiency and Solar Water Heating	Provides single family and small multi-family low-income homes with weatherization and energy efficiency measures that include: weather-stripping, insulation, caulking, water heater blankets, fixing or replacing windows, refrigerator replacement, water heater repair/replacement, heating and cooling system repair/replacement, and solar water heaters. These measures improve home comfort and allow for savings on energy costs. CSD has awarded funds to a network of local providers to provide services throughout California.	Various	$23,974,000
Large Multi-Family Energy Efficiency and Renewables	Provides multi-family, low-income homes with weatherization and energy efficiency measures that may include: weather-stripping, insulation, caulking, water heater blankets, fixing or replacing windows, refrigerator replacement, water heater repair/replacement, heating and cooling system repair/replacement, solar water heaters, and solar photovoltaics systems. These measures improve home comfort and allow for savings on energy costs. CSD has selected a service provider to administer the program throughout California.	Various	$24,000,000
Solar Photovoltaics	Provides low-income, single-family homes with solar photovoltaics systems to lower cost barriers to renewable solar energy. CSD has awarded funds to a service provider to install systems throughout California and a pilot program serving six counties.	Various	$22,326,000
California Energy Commission			
Energy Efficiency in Public Buildings			
Not reported			
California Department of Food and Agriculture			
Dairy Digester Research and Development Program			
Verwey-Hanford Dairy Digester	New covered lagoon digester, biogas used to produce electricity.	Kings	$3,000,000
Open Sky Ranch Dairy Digester	Recommission a covered lagoon digester, biogas used to produce electricity.	Fresno	$973,430
Verwey-Madera Dairy Digester	New covered lagoon digester, biogas used to produce electricity.	Madera	$2,281,091
AgPower Visalia LLC	DVOTM mixed-plug flow digester treating manure, biogas used to produce electricity.	Tulare	$3,000,000
The West Star North Dairy Biogas Project	Two covered lagoon digesters, biogas used to produce electricity per year. Additional biogas will be stored under flexible covers installed on the lagoons.	Kern	$1,837,005
State Water Efficiency and Enhancement Program			
WYSIWYG Farms	soil moisture sensors	Monterey	$7,329
Triple K Orchards LLC	micro irrigation; pump efficiency; soil moisture sensors; irrigation scheduling	Kings	$50,000
Terranova Ranch, Inc.	micro irrigation; pump efficiency	Fresno	$40,686
Dougherty Brothers	micro irrigation; pump efficiency	Sutter	$50,000
Costa Farms, Inc.	soil moisture sensors; irrigation scheduling; pump efficiency	Monterey	$50,000
Colliver Farms	soil moisture sensors; irrigation scheduling; micro irrigation	Fresno	$50,000
American Farms, LLC	soil moisture sensors; irrigation scheduling; pump efficiency	Monterey	$50,000
Heavenly Avocado Ranch	other - renewable energy (solar)	San Joaquin	$50,000
Freitas Farms 1	soil moisture sensors; irrigation scheduling; micro irrigation; pump efficiency	Fresno	$50,000

Project Name	Project Description	Location by County	GGRF Funding ($)
Sakakihara Farms	soil moisture sensors	Monterey	$16,620
Daniel Jackson Farms	soil moisture sensors; irrigation scheduling	Tulare	$50,000
Mike Jackson Farms	micro irrigation	Tulare	$50,000
David Jackson Farms	soil moisture sensors; irrigation scheduling	Kings	$50,000
Rick Jackson Farms	soil moisture sensors; irrigation scheduling	Tulare	$50,000
Trent Jackson Farms	soil moisture sensors; irrigation scheduling	Tulare	$50,000
Henry Pruitt Anderson, III & Betty Jean Andserson	micro irrigation; irrigation scheduling	Tulare	$50,000
Adagio Olive Farms	soil moisture sensors; irrigation scheduling; other - renewable energy (solar)	San Luis Obispo	$18,219
C AND E OTT FARMS LLC	soil moisture sensors; pump efficiency	Stanislaus	$45,775
Braga Ranch Partnership	soil moisture sensors; irrigation scheduling; micro irrigation; pump efficiency	Monterey	$50,000
Lock Agricultural Ventures, LLC	soil moisture sensors; irrigation scheduling; pump efficiency	San Luis Obispo	$12,898
Wade Jackson Farms	soil moisture sensors	San Benito	$50,000
Ty Muxlow Farms	soil moisture sensors	Tulare	$50,000
Broken Earth Winery	soil moisture sensors; irrigation scheduling	San Luis Obispo	$4,657
Dewlson Farm	soil moisture sensors; pump efficiency	Santa Barbara	$30,296
Bengard Ranch, LLC	micro irrigation	Monterey	$48,044
Rancho Rendezvous Farms	soil moisture sensors	San Luis Obispo	$3,997
Nick Huerta	micro irrigation	Fresno	$27,940
Fuentes Berry, LLC	soil moisture sensors; pump efficiency	Monterey	$35,679
Byrd Cattle Company LLC	other - open ditch to pipeline; irrigation scheduling	Tehama	$15,874
R B Farms LLC	pump efficiency; irrigation scheduling; soil moisture sensors	Monterey	$50,000
Scott Raven Farms	micro irrigation	Fresno	$50,000
Hope Family Vineyard	soil moisture sensors; irrigation scheduling	San Luis Obispo	$6,494
Jim Rossi DBA Four Oaks Farming	soil moisture sensors; irrigation scheduling	Tulare	$28,016
Reamer Farms	soil moisture sensors; irrigation scheduling	Yolo	$50,000
Sun Drenched Farms	soil moisture sensors; irrigation; pump efficiency; micro irrigation; other - water capture	San Diego	$50,000
Clark Bros. Farming	soil moisture sensors	Fresno	$29,085
Wm. Bolthouse Farms, Inc.	pump efficiency	Los Angeles	$50,000
Tony & Amie Azevedo	micro irrigation	Kings	$50,000
Theldor Farms	soil moisture sensors; irrigation scheduling	Butte	$25,000
Stone Ranch	micro irrigation	Kings	$50,000
Stone Family Limited Partnership	micro irrigation	Kings	$50,000
Pasatiempo Vineyards, LLC	soil moisture sensors	Fresno	$22,294

Project Name	Project Description	Location by County	GGRF Funding ($)
Jon and Joy Lee	other - renewable energy (solar); other - water capture	Yolo	$11,598
Jackson Family Investments, LLC	other - KISSS subsurface irrigation; soil moisture sensors	Napa	$50,000
Six K's	micro irrigation; pump efficiency; other -renewable energy (solar)	Butte	$50,000
Danell Brother Farms	micro irrigation; other - mulch	San Benito	$38,223
Amberglow Ranch	micro irrigation; other -renewable energy	Kern	$30,789
Yangs Capital, LLC	soil moisture sensors; micro irrigation	Riverside	$8,774
Kenneth L. Puryear	micro irrigation	Tulare	$50,000
DP Farms	micro irrigation	Merced	$50,000
Netto West Farming	micro irrigation	Kings	$47,283
Mumma Brothers	soil moisture sensors; micro irrigation; pump efficiency; irrigation scheduling	Colusa	$50,000
David Santos Farming	micro irrigation; soil moisture sensors	Merced	$50,000
Sunny Acre Farming Inc	micro irrigation	Kings	$42,321
Kingsburg Citrus Farm Inc	soil moisture sensors; irrigation scheduling; pump efficiency; other - mulch	Kern	$46,347
Lagier Ranches, Inc.	micro irrigation; pump efficiency	San Joaquin	$10,441
Troy Jackson Farms	soil moisture sensors; irrigation scheduling	Tulare	$50,000
Andy Muxlow Farms	soil moisture sensors; irrigation scheduling	Kings	$50,000
Moniz Vineyards	micro irrigation; soil moisture sensors	Santa Clara	$14,500
Yamamoto Brothers Farms	soil moisture sensors; micro irrigation; pump efficiency	Stanislaus	$47,447
Bobby Yamamoto Farms, Inc.	micro irrigation	Stanislaus	$13,885
Grapery, Inc.	soil moisture sensors; irrigation scheduling	Kern	$17,430
Wm. Bolthouse Farms, Inc.	other - pipeline improvement	Fresno	$150,000
KG Vineyard Management	micro irrigation; pump efficiency; other -mulch	San Joaquin	$54,983
Rio Farms LLC	pump efficiency; micro irrigation; soil moisture sensors; other - pipeline improvement	Monterey	$150,000
Rio Blanco Dairy	micro irrigation	Tulare	$47,503
Oak Creek Ranch	soil moisture sensors; micro irrigation	San Luis Obispo	$150,000
Colusa Indian Community Council	soil moisture sensors	Colusa	$89,600
Tayyeba Farms LLC	irrigation scheduling; soil moisture sensors	Kern	$80,649
Haleakala Ranch	soil moisture sensors	Tehama	$123,261
JJB Farms	pump efficiency; soil moisture sensors	Yolo	$139,482
Brandon Chapla	soil moisture sensors; irrigation scheduling	Butte	$40,147
Vital Farmland LP	soil moisture sensors; micro irrigation	Contra Costa	$62,126
Stephens Ranch	soil moisture sensors	Butte	$150,000
Borzini Farms, Inc	soil moisture sensors; pump efficiency	Monterey	$150,000

Project Name	Project Description	Location by County	GGRF Funding ($)
OSR Enterprises Inc	pump efficiency; soil moisture sensors; irrigation scheduling;	Santa Barbara	$144,041
Jacob's Farm	soil moisture sensors; irrigation scheduling	Santa Cruz	$40,166
Rio Viento Vineyards	soil moisture sensors; irrigation scheduling	Sacramento	$53,400
The Cloverleaf Farm	soil moisture sensors; other - renewable energy (solar); other - water reuse	Solano	$79,108
Grivey Brothers, Inc.	micro irrigation; other- renewable energy (solar)	Glenn	$150,000
Scheid Vineyards, Inc.	soil moisture sensors; pump efficiency; micro irrigation	Monterey	$144,026
Altman Plants	energy efficiency; other - water reuse	San Diego	$125,235
Terranova Ranch, Inc.	pump efficiency	Fresno	$150,000
Uvas, Inc.	soil moisture sensors; micro irrigation	Fresno	$115,217
Creston Valley Vineyards	soil moisture sensor	San Luis Obispo	$118,638
Gary Dutro Orchards LLC	soil moisture sensors; pump efficiency	Tehama	$31,420
Neal Spring Vineyards	soil moisture sensors	San Luis Obispo	$35,121
Parrlon Farming	soil moisture sensors; pump efficiency	Merced	$144,373
Almont Orchards Inc.	soil moisture sensors; pump efficiency	Butte	$78,083
A&J Family Farms Inc.	soil moisture sensors; pump efficiency; irrigation scheduling	Butte	$30,860
Nicolaus Nut Company	soil moisture sensors; irrigation scheduling	Butte	$46,818
R&D Farms LLC	micro irrigation; soil moisture sensors; pump efficiency	Fresno	$150,000
Collin's Vineyards	soil moisture sensors	San Luis Obispo	$77,199
Rudd Orchards	soil moisture sensors	Butte	$7,308
Crane Mills	soil moisture sensors; irrigation scheduling	Tehama	$46,350
Alex Ortiz	soil moisture sensors; irrigation scheduling; micro irrigation	Glenn	$52,806
Tablas Creek Vineyard, A CA Limited Partnership	other- renewable energy (solar); soil moisture sensors; irrigation scheduling	San Luis Obispo	$150,000
Ann B. Montgomery 2007 Trust	soil moisture sensors; pump efficiency	Butte	$18,504
Vic Werlhof	soil moisture sensors	Butte	$10,658
F & D Giacomazzi Farms	pump efficiency; irrigation scheduling; soil moisture sensors; micro irrigation; other -renewable energy (solar)	Tulare	$150,000
Ann B. Montgomery Farms L.P.	soil moisture sensors; irrigation scheduling	Butte	$41,403
Ira Compton	soil moisture sensors; pump efficiency; micro irrigation	Butte	$25,564
Clark Bros. Farming	micro irrigation	Yolo	$150,000
Noble Orchard Company	soil moisture sensors; other -water capture; other -renewable energy (solar)	Butte	$30,824
Clarksburg Vines	soil moisture sensors; irrigation scheduling; micro irrigation	Yolo	$112,670
Paso Robles Vineyard Inc.	soil moisture sensors; irrigation scheduling	San Luis Obispo	$150,000
Channel Islands Berry Farms, Inc	soil moisture sensors	Ventura	$103,804

Project Name	Project Description	Location by County	GGRF Funding ($)
Ben J Schroeder	soil moisture sensors	Kern	$145,424
Sipple Orchards	soil moisture sensors	Butte	$10,658
Aline's Vineyard	soil moisture sensors	San Luis Obispo	$33,920
Pasatiempo Vineyards, LLC	micro irrigation; pump efficiency; soil moisture sensors	Fresno	$96,473
Hahn	soil moisture sensors; pump efficiency	Glenn	$15,721
Legacy Growers, LLC	other - pipeline improvement; micro irrigation	Santa Barbara	$150,000
Bertagna Custom Farming, Inc.	micro irrigation; soil moisture sensors	Butte	$49,000
Jason Bertagna	soil moisture sensors; irrigation scheduling	Butte	$15,721
Nock Orchards Inc	soil moisture sensors; pump efficiency	Butte	$78,647
Paiva Farms Limited Partnership	soil moisture sensors; micro irrigation; pump efficiency	Butte	$148,868
Robert J. Silva Farms	pump efficiency; soil moisture sensors; micro irrigation	Monterey	$149,934
MJB	pump efficiency	Butte	$23,470
Linne Calodo Cellars	soil moisture sensors; irrigation scheduling	San Luis Obispo	$150,000
Warren Leslie Davis	soil moisture sensors; micro irrigation	Fresno	$50,000
Flight Investment, Inc	soil moisture sensors; irrigation scheduling	San Luis Obispo	$3,246
Patricia Diane Vineyard, LLC	soil moisture sensors; irrigation scheduling	San Luis Obispo	$6,350
Reamer Farms	soil moisture sensors	Yolo	$65,950
Gill Ranch Company LLC	soil moisture sensors; pump efficiency; micro irrigation	Monterey	$90,000
Bernadette Davis	micro irrigation	Fresno	$26,510
Hammond Vineyards L.P.	soil moisture sensors; irrigation scheduling	San Luis Obispo	$12,575
Eade Ranch Management Inc	soil moisture sensors; other - renewable energy (solar)	Monterey	$150,000
RBZ Vnyds LLC	soil moisture sensors; irrigation scheduling	San Luis Obispo	$150,000
3R Land and Development	soil moisture sensors; micro irrigation	Tulare	$122,885
American Farms LLC	soil moisture sensors; micro irrigation; pump efficiency	Monterey	$150,000
Steve Fukagawa	micro irrigation; other -renewable energy (solar)	Kings	$150,000
JMAD Enterprises LLC	soil moisture sensors; irrigation scheduling; pump efficiency	Merced	$52,053
Nick Huerta	soil moisture sensors; micro irrigation; pump efficiency; irrigation scheduling	Fresno	$50,223
Navdip Badhesha	micro irrigation; pump efficiency; irrigation scheduling; other - renewable energy (solar)	Fresno	$150,000
Becky Muxlow Farms	soil moisture sensors; irrigation scheduling; other - renewable energy (solar)	Kings	$150,000
Richard Kahn	pump efficiency; micro irrigation	Fresno	$103,627
Dougherty Brothers	soil moisture sensors; pump efficiency; irrigation scheduling; micro irrigation	Sutter	$134,906
William Pruitt	micro irrigation; pump efficiency; irrigation scheduling; soil moisture sensors	Fresno	$150,000
Stratford Ranch	soil moisture sensors; irrigation scheduling; other - renewable energy (solar); pump efficiency	Kings	$150,000

Project Name	Project Description	Location by County	GGRF Funding ($)
Melissa Pruitt Farms	micro irrigation; pump efficiency; soil moisture sensors; irrigation scheduling	Merced	$150,000
Terranova Ranch, Inc.	soil moisture sensors; micro irrigation	Fresno	$50,366
CH Farming Inc.	soil moisture sensors; micro irrigation	Stanislaus	$94,513
Leroy Del Don - Del Mar Farms Dos Palos	other - renewable energy (solar); micro irrigation; pump efficiency; soil moisture sensors; irrigation scheduling	Merced	$150,000
DP Farms	soil moisture sensors; micro irrigation; other- renewable energy (solar); irrigation scheduling; pump efficiency	Fresno	$150,000
Karl te Velde Ranch, Inc.	micro irrigation; soil moisture sensors; irrigation scheduling	Kings	$150,000
Tiffany Del Don	pump efficiency; micro irrigation; soil moisture sensors; irrigation scheduling	Fresno	$150,000
Merrill Farms LLC	soil moisture sensors	Monterey	$149,576
John D Weddington and Jan S Holcomb	pump efficiency; other - low pressure conversion; soil moisture sensors; irrigation scheduling; other -water reuse	Fresno	$65,288
Stone Ranch	micro irrigation; soil moisture sensors; pump efficiency; other - renewable energy (solar)	Kings	$150,000
Her Produce	micro irrigation; soil moisture sensors	Fresno	$45,674
Henry Pruitt Anderson, III & Betty Jean Anderson	micro irrigation; soil moisture sensors; pump efficiency; other- renewable energy (solar); irrigation scheduling	Tulare	$150,000
Huerta Family Farms Inc.	micro irrigation; soil moisture sensors; pump efficiency; irrigation scheduling	Fresno	$150,000
Innovative Produce Inc.	soil moisture sensors; pump efficiency; irrigation scheduling	Santa Barbara	$150,000
Orosi Premium Citrus, LLC	micro irrigation; pump efficiency; soil moisture sensors	Tulare	$140,140
Holmes Ag Management	irrigation scheduling; soil moisture sensors; pump efficiency	Tulare	$124,526
DAMCO Investments	micro irrigation; soil moisture sensors; irrigation scheduling	Tulare	$96,836
C AND E OTT FARMS LLC	micro irrigation; soil moisture sensors; irrigation scheduling	San Joaquin	$150,000
Freedom Farms	micro irrigation; pump efficiency; soil moisture sensors; irrigation scheduling	Sutter	$150,000
Andrew Clark	other -renewable energy (solar); soil moisture sensors; irrigation scheduling	Fresno	$69,195
Godinho Orchards	soil moisture sensors	Solano	$10,923
Opolo Wines, LP	other -renewable energy (solar); soil moisture sensors	San Luis Obispo	$150,000
Sierra Shadows Ranch LP	micro irrigation; soil moisture sensors; pump efficiency; irrigation scheduling	Kern	$24,548
Wm. Bolthouse Farms, Inc.	other - pipeline improvement	Kings	$150,000
Sarvjeet Panach	micro irrigation; soil moisture sensors; irrigation scheduling	Fresno	$125,541
Baker Farming	soil moisture sensors; micro irrigation; other -renewable energy (solar)	Butte	$93,664
Iron Horse Ranches	pump efficiency; other -renewable energy (solar)	Stanislaus	$150,000
Andrew Castillo	soil moisture sensors; irrigation scheduling	Butte	$11,430
DLP Ag Partnership, LP	soil moisture sensors; irrigation scheduling; pump efficiency	San Luis Obispo	$149,904
Paiva Farms	soil moisture sensors; pump efficiency	Butte	$10,170

Project Name	Project Description	Location by County	GGRF Funding ($)
Sipma Farms Inc.	micro irrigation; pump efficiency; soil moisture sensors; irrigation scheduling	San Joaquin	$60,378
Farming M's, Inc.	microirrigation; pump efficiency; soil moisture sensors; irrigation scheduling; other -renewable energy (solar)	Tulare	$150,000
Michael G Jackson	micro irrigation; soil moisture sensors; irrigation scheduling	Fresno	$150,000
Sami Jadallah	soil moisture sensors; pump efficiency	Yolo	$15,170
James Moore Farm	soil moisture sensors; pump efficiency	Butte	$10,760
Bertagna Orchards, Inc.	soil moisture sensors; micro irrigation	Butte	$150,000
Sharyne Merritt	irrigation scheduling; soil moisture sensors; other - mulch	Santa Barbara	$54,808
Charles E. Langel Orchards	soil moisture sensors	Butte	$11,175
Watanabe Farms	soil moisture sensors; pump efficiency	Butte	$11,175
Anthony Gentile	other -renewable energy (solar); soil moisture sensors	Butte	$112,314
Stephens Farm	soil moisture sensors; pump efficiency	Butte	$11,175
Kaweah's Run Vineyard	soil moisture sensors; pump efficiency	San Luis Obispo	$16,042
Knott Farms	soil moisture sensors; pump efficiency	Butte	$11,175
Myers Seed	soil moisture sensors; pump efficiency	Colusa	$93,096
Baugher	soil moisture sensors; pump efficiency; micro irrigation	Glenn	$150,000
Peter Chapla	soil moisture sensors	Butte	$26,010
Babe Farms	soil moisture sensors; irrigation scheduling	Santa Barbara	$24,155
Isidro Hurtado	micro irrigation; soil moisture sensors; pump efficiency	Butte	$54,165
Boparai Farms	soil moisture sensors	Fresno	$112,468
Samuelson Farms	micro irrigation; soil moisture sensors; pump efficiency	Fresno	$149,129
Bertagna Custom Farming, Inc.	soil moisture sensors	Glenn	$32,760
Old Colony Partnership	soil moisture sensors; pump efficiency; other -renewable energy (solar)	Tehama	$105,019
Patricia Diane Vineyard, LLC	soil moisture sensors; irrigation scheduling	San Luis Obispo	$20,610
Ken Braunschmidt	soil moisture sensors; pump efficiency	Colusa	$47,793
Rahul Family Farms, L.P.	soil moisture sensors; irrigation scheduling	Butte	$66,465
X Line Farms	soil moisture sensors; irrigation scheduling	San Luis Obispo	$24,945
Cordi Family Farms	soil moisture sensors; micro irrigation	Sutter	$65,922
S&F Farms	soil moisture sensors; irrigation scheduling	Kern	$22,023
Alborz Farms LLC	soil moisture sensors; irrigation scheduling	Kern	$44,216
Holtermann Farms	soil moisture sensors	Kern	$95,004
Martella Farm	soil moisture sensors; pump efficiency; other -renewable energy (solar)	Kings	$113,200
J & R Sanguinetti Farms Inc.	soil moisture sensors	San Joaquin	$117,760
Doug Les Farms	micro irrigation; soil moisture sensors; irrigation scheduling	Tulare	$131,788

Project Name	Project Description	Location by County	GGRF Funding ($)
Greene and Hemly	soil moisture sensors; irrigation scheduling	Sacramento	$138,030
Travioli Family Farms	soil moisture sensors; irrigation scheduling	Tulare	$97,814
Bidart Bros.	soil moisture sensors	Kern	$146,650
Richardson Family Irrv. Trust	soil moisture sensors	Tulare	$94,927
Rapp Family 2001 Trust	soil moisture sensors	Merced	$44,856
Porto Brothers	soil moisture sensors	Fresno	$147,898
Naimi Ranch Inc	soil moisture sensors	Merced	$85,204
Jed Webster	pump efficiency	Madera	$83,988
Twin Oaks Vineyard LLC	soil moisture sensors; pump efficiency	Colusa	$70,753
American Farms, LLC	pump efficiency; soil moisture sensors	Monterey	$150,000
Mission Holdings	pump efficiency; soil moisture sensors; irrigation scheduling	Monterey	$150,000
Mission Ranches, LLC	pump efficiency; soil moisture sensors; other -renewable energy (solar)	Monterey	$150,000
Adam Agricultural Limited Partnership	pump efficiency; other -renewable energy (solar); soil moisture sensors; irrigation scheduling	Santa Barbara	$150,000
MEK Group, Inc.	other - renewable energy (solar); other- low pressure system	Kern	$74,479
K&R Farms, LP	pump efficiency; soil moisture sensors; other -renewable energy (solar)	Monterey	$150,000
Ben Bertagna Farming	soil moisture sensors; other -renewable energy (solar)	Butte	$150,000
Beck Ag Operations, Inc	other -renewable energy (solar); soil moisture sensors; irrigation scheduling	San Luis Obispo	$150,000
West Coast Tomato Growers INC	soil moisture sensors; irrigation scheduling	San Diego	$147,845
Nick Bertagna Farming	soil moisture sensors; pump efficiency	Butte	$44,015
ARC Vineyards, LLC	soil moisture sensors; irrigation scheduling	Santa Barbara	$32,365
James Davidson	soil moisture sensors; irrigation scheduling; pump efficiency	Butte	$19,721
G and N Creekside Farms Inc	soil moisture sensors; pump efficiency	Butte	$38,650
Pavo Real Vineyard LLC.	soil moisture sensors; irrigation scheduling	Monterey	$14,697
Jennifer Tucker	micro irrigation; soil moisture sensors; other - renewable energy (solar)	Butte	$33,457
Diamond West Farming Inc.	soil moisture sensors; irrigation scheduling	San Luis Obispo	$148,232
Tanimura Brothers, LP	soil moisture sensors; irrigation scheduling	Monterey	$86,682
Kemp Orchard	soil moisture sensors; pump efficiency; other -renewable energy (solar)	Tehama	$52,176
R & J Sanguinetti	soil moisture sensors; irrigation scheduling	San Joaquin	$143,584
Hidden Oak Winery	soil moisture sensors	San Luis Obispo	$7,692
Charles F. Manhart	soil moisture sensors	Colusa	$54,300

Project Name	Project Description	Location by County	GGRF Funding ($)
Department of Water Resources			
Water-Energy Efficiency: Incentives			
Water Conservation Kit Project	Residential Water Efficiency	Tulare	$34,953
Low Income Water and Energy Measures (LIWEM) for Tulare County	Residential Water Efficiency	Tulare	$155,500
Smart Irrigation Controller Project	Institutional Water Efficiency	Kern	$681,739
Bathroom Fixture Replacement Program in Bakersfield District	Residential/Commercial/Institutional Water Efficiency	Kern	$490,500
Bathroom Fixture Replacement Program in Dominguez and East Los Angeles Districts	Residential/Commercial/Institutional Water Efficiency	Los Angeles	$797,400
Advanced Metering Infrastructure Pilot Implementation Project	Residential Water Efficiency	San Bernardino	$2,011,465
WaterLink: A program of Ecology Action in collaboration with the SCVWD & the CCCs	Residential/Commercial/Institutional Water Efficiency	Santa Cruz	$2,495,743
Automated Metering Infrastructure DAC Implementation	Residential Water Efficiency	Riverside	$858,625
Farmersville DAC Water Energy Savings Initiative	Residential/Commercial/Institutional Water Efficiency	Tulare	$1,361,593
IRWD Water and Energy Residential Resource Savings Program	Residential Water Efficiency	Orange	$1,932,621
Water-Energy Community Action Network (WE CAN) - San Joaquin Valley	Residential Water Efficiency	Sacramento	$2,499,367
City of Merced - Water-Energy Savings Proposal	Residential Water Efficiency	Merced	$2,500,000
2014 Orange Cove Water Energy Efficiency Program	Residential Water Efficiency	Fresno	$280,000
Sacramento Regional Water Energy Efficiency Program	Residential Water Efficiency	Sacramento	$2,500,000
City of Sacramento Department of Utilities District Metered Areas (DMAs) for Water Loss Control	Institutional Water Efficiency	Sacramento	$2,500,000

Project Name	Project Description	Location by County	GGRF Funding ($)
San Gabriel Valley Municipal Water District Water and Energy Conservation Rebate Program	Residential/Commercial Water Efficiency	Los Angeles	$231,915
Water-Energy Community Action Network Program	Residential Water Efficiency	Riverside	$2,339,823
Santa Rosa Efficient Fixtures Direct Installation Program	Residential/Commercial Water Efficiency	Sonoma	$2,499,724
SEMCU Area Retrofitting Project	Residential Water Efficiency	Madera	$218,594
Large Landscape Survey and Retrofit Program	Commercial/Institutional Water Efficiency	Los Angeles	$1,396,500
Yuba City Washing Machine Rebate Program	Residential Water Efficiency	Sutter	$24,000
Water-Energy Efficiency: Turbines			
Hyatt Hydroelectric Generation Plant Unit 1	Improve availability and Efficiency of Hydroelectric Generation Turbine	Butte	$10,000,000
Thermalito Hydroelectric Generation Plant Unit 1	Improve Efficiency of Hydroelectric Generation Turbine	Butte	$10,000,000
Department of Fish and Wildlife			
Sacramento-San Joaquin Delta and Coastal Wetlands			
Sherman Island Wetland Restoration Project	Construction of a 700 acre Whale's Mouth Wetland and restoration of 1,000 acres of Belly Wetland. Permanent palustrine emergent wetlands will sequester GHG, provide co-benefits (subsidence reversal, improved levee stability, wildlife habitat).	Sacramento	$10,386,139
Blue Carbon at Elkhorn Slough: Increasing Regional Carbon Sequestration Through Salt Marsh Restoration	Restore 61 acres of tidal salt marsh and 5 acres of a perennial grassland buffer in the southern area of Elkhorn Slough. The project is designed to restore coastal wetlands to reduce GHGs and improve important estuarine habitat.	Monterey	$2,996,768
North Campus Open Space Wetlands Restoration	Restore 34 acres of diverse coastal wetlands and 20 acres of upland habitat, connected to Devereux Slough. The project is designed to sequester GHGs and provide co-benefits (habitat, reduce localized flooding, provide educational opportunities).	Santa Barbara	$999,989
Initiation of Thin-layered Sediment Augmentation on the Pacific Coast: Coastal Salt Marsh for Carbon Sequestration/Storage	Enhance 10 acres of subsiding tidal salt marsh habitat by applying thin layer of sediment as sea-level rise adaptation tool for long-term preservation of coastal salt marsh habitat.	Orange	$1,055,827
Mountain Meadow Ecosystems			
Developing a Protocol for Net Carbon Sequestration from Restoration of Eastern Sierra Meadows	Restore 90 acres of Osa Meadow using the pond and plug technique. The project is designed to enhance the meadows ability to sequester carbon and provide an array of co-benefits.	Tulare	$921,766.00

Project Name	Project Description	Location by County	GGRF Funding ($)
Mountain Meadows Restoration Project at Greenville Creek and Upper Goodrich and Effects on GHGs	Restore 253 acres of degraded dry mountain meadow habitat (Greenville Creek [181 ac] and Upper Goodrich [72 ac] meadows), using the pond and plug technique and other actions to increase carbon sequestration and provide co-benefits.	Lassen	$679,565.59
A Demonstration of the Carbon Sequestration and Biodiversity Benefits of Beaver and Beaver Dam Analogue Restoration Techniques	Restore 80 acres of Childs Meadow using cost-effective Beaver Dam Analogues and riparian fencing. Restoration actions are designed to increase carbon sequestration and provide co-benefits.	Tehama	$539,672.00
Bean Meadow Restoration Project	Restore/enhance 39 acres of wet meadow using pond and plug restoration technique to increase the capacity of the meadow to sequester carbon and provide co-benefits (reduce downstream sedimentation, improve water quality, improve wildlife habitat).	Mariposa	$493,543.00
Yuba Headwaters Meadow Restoration	Restore Loney Meadow 47.2 ac, Deer Meadow 46.1 ac, and Bear Trap Meadow 72.0 ac through stream channel and gully restoration and road drainage improvements; reclaiming old roads; restoring natural flow paths; and re-vegetation work.	Nevada, Sierra	$567,480.00
Middle Martis Creek Wetlands Restoration	Restore and enhance up to 37 acres of degraded wet meadow and 2 acres of riparian habitat, implementing a variety of measures (e.g., modification of a culvert intake, construction of a new channel downstream of diversion, creating a stable confluence with existing Martis Creek, restoration of headcuts in existing channel, and revegetation).	Placer	$594,176.39
Truckee Meadows Restoration Project	Restore and enhance up to 37 acres of degraded wet meadow and 2 acres of riparian habitat (modification of a culvert intake, construction of a new channel, restoration of headcuts in existing channel, and revegetation).	Nevada	$1,495,551.00
Restoration of the Carbon Storing Ecosystem in Tuolumne Meadows, Yosemite National Park, CA	Restore 9 acres to the sedge-dominated plant community to enhance the carbon sequestration capacity of the restored meadow, while also providing co-benefits (e.g., improved water holding capacity of the soils and greater sediment retention).	Tuolumne	$587,996.00
Department of Forestry and Fire Protection			
Forest Health Program			
Schaezlein CFIP	Funding to restore parcels severely damaged in the 2013 Rim Fire by replanting and controlling for competing brush on replanted areas.	Tuolumne	$49,996
Crook CFIP	Funding to restore parcels severely damaged in the 2013 Rim Fire by replanting and controlling for competing brush on replanted areas.	Tuolumne	$49,366
Manly CFIP	Funding to restore parcels severely damaged in the 2013 Rim Fire by replanting and controlling for competing brush on replanted areas. Removed dead materials will be utilized as biomass fuel production.	Tuolumne	$34,224
Massetti Plantation Maintenance	Funding to maintain multi-landowner established plantations through a light pre-commercial thinning and release treatment as well as interplanting the project area to secure full regeneration.	Madera	$49,500

Project Name	Project Description	Location by County	GGRF Funding ($)
Erickson CFIP	Funding to restore lands severely damaged in the 2013 Rim Fire through site preparation, planting and release treatments to control brush. Removed of sub-merchantable trees and woody material will be utilized as biomass fuel production.	Tuolumne	$49,500
Halpenny - Bridge Property	Funding to restore lands burned in the 2009 Sugarloaf Fire through site preparation, tree planting, gopher population control, and release treatments to reduce competing vegetation and promote growth.	Shasta	$17,719
Shirttail Manly	Funding to restore lands burned in the 2012 Robbers Fire through site preparation, tree planting, and release treatments to reduce competing vegetation and promote growth.	Placer	$71,488
Honn Ranch Reforestation	Funding to restore lands burned in the 2014 Eiler Fire through site preparation, tree planting, and release treatments to reduce competing vegetation and promote growth.	Shasta	$65,456
Circle U Ranch	Funding to restore lands burned in the 2014 Eiler Fire through site preparation, tree planting, and release treatments to reduce competing vegetation and promote growth.	Shasta	$99,959
Brown Ranch	Funding to restore lands burned in the 2014 Eiler Fire through site preparation, tree planting, and release treatments to reduce competing vegetation and promote growth.	Shasta	$99,951
Ryman, Ward, Damon, Hanson	Funding to restore lands burned in the 2014 Eiler Fire through site preparation and tree planting.	Shasta	$9,890
Bidwell Property	Funding to restore lands burned in the 2014 Eiler Fire through site preparation, tree planting, and release treatments to reduce competing vegetation and promote growth.	Shasta	$16,624
Lakey Trust Property / Pam Giacomini	Funding to restore lands burned in the 2014 Eiler Fire through site preparation, tree planting, and release treatments to reduce competing vegetation and promote growth.	Shasta	$45,068
Royston Property	Funding to restore lands burned in the 2014 Eiler Fire through site preparation, tree planting, and release treatments to reduce competing vegetation and promote growth.	Shasta	$24,114
Jim Halpenny	Funding to restore lands burned in the 2014 Eiler Fire through site preparation, tree planting, and release treatments to reduce competing vegetation and promote growth.	Shasta	$15,769
Ryman, Ward, Damon, Hanson	Funding to restore lands burned in the 2014 Eiler Fire through site preparation and tree planting.	Shasta	$11,331
Ryman, Ward, Damon, Hanson	Funding to restore lands burned in the 2014 Eiler Fire through site preparation and tree planting.	Shasta	$8,763
Ryman, Ward, Damon, Hanson	Funding to restore lands burned in the 2014 Eiler Fire through site preparation and tree planting.	Shasta	$9,619
King Fire Watershed Rehabilitation and Reforestation Project	Funding to restore lands burned in the 2014 King Fire through site preparation and tree planting as well as reducing wildfire risk in the future by removing debris and dead trees. Project also has an education component on wildfire response.	El Dorado	$1,893,957
Barry Point Restoration Project	Funding to restore lands burned in the 2012 Barry Point Fire through reforestation.	Modoc	$500,000
Sand Fire Watershed Rehabilitation and Reforestation Project	Funding to restore lands burned in the 2014 Sand Fire through site preparation and tree planting as well as reducing wildfire risk in the future by removing debris and dead trees. Project also has an education component on wildfire response.	El Dorado	$793,551
2014 Day Fire Restoration	Funding to restore lands burned in the 2014 Day Fire through reforestation.	Modoc	$489,963
Coordinated Watershed Reforestation of 92,000+ Acres Burned	Funding to protect watersheds and restore lands burned in the 2014 King Fire, 2013 American Fire, 2012 Robbers Fire, and 2001 Star Fire through reforestation.	Sutter	$1,547,622

Project Name	Project Description	Location by County	GGRF Funding ($)
Protecting and increasing carbon capture in California forests attacked by insects and pathogens	Funding to implement treatments and provide scientific and practical guidance to enable pest management interventions that benefit carbon sequestration.	Santa Cruz	$518,797
Cambria Forest Health	Funding to improve forest health by selectively reducing accumulation of dead and dying Monterey pine, reducing stand replacement fire risk, removing invasives, restricting disease spread and encouraging regeneration of healthy native pine seedlings.	San Luis Obispo	$498,736
Redwood Valley Sudden Oak Death Biomass Removal Project	Funding to thin Tanoak and remove bay laurel to reduce the potential spread of the sudden oak death pathogen and replanting with non-susceptible hosts.	Trinity	$527,396
Returning Redwoods: testing Cultivar and Seedlings for Survival and Growth in Grassy Degraded Forestland	Funding to test redwood cultivar and seedlings for survival and growth in grassy, degraded forestland areas.	Mendocino	$167,735
Forest Legacy Program			
Rainbow Ridge	Funding to place a working forest conservation easement on 597 acres in Siskiyou County.	Siskiyou	$225,000
Pacific Union College	Funding to place a working forest conservation easement on 860 acres in Napa County.	Napa	$2,850,000
Jacoby Creek	Funding to purchase in fee and place a working forest conservation easement on 967 acres in Humboldt County.	Humboldt	$800,000
Jolly Giant Creek	Funding to purchase in fee and place a working forest conservation easement on 20 acres in Humboldt County.	Humboldt	$150,000
Urban Forestry Program			
Planting with Purpose	Funding to planting at least 2,500 drought tolerant trees in a variety of green infrastructure projects through smaller sub-grants.	Various	$649,965
NeghborWoods in South Sacramento	Funding to plant 3,000 drought tolerant trees in private and public spaces in disadvantaged communities in the Sacramento area. Project includes tree establishment and care education and training component.	Sacramento	$1,000,000
Farmersville Urban Forest Restoration and Park Development	Funding for tree planting and vegetated storm water capture for a new park in a disadvantaged community. Capturing this runoff will assist in groundwater recharge.	Tulare	$270,000
Mulhall Family Center Green Infrastructure Project	Funding to implement green infrastructure and plant 600 trees in a disadvantaged community to reduce greenhouse gas emissions, demonstrate the benefits in reducing the consumption of energy and water resources, and improved storm water management.	Los Angeles	$750,000
San Diego Tree Advantage	Funding to modify infrastructure as needed to plant and maintain 1,200 large statured trees in disadvantaged communities to reduce greenhouse gas emissions.	San Diego	$750,000
Green Streets through Community Engagement	Funding to plant 1,120 trees and make infrastructure modifications to support growing of large trees. The project will conserve potable water by removing turf on medians and in yards and conserve electricity by providing shade to residences.	Los Angeles	$329,725
California Initiative to Reduce Carbon and Limit Emissions (CIRCLE)	Funding to plant 1,350 site-adapted and drought tolerant trees of various species through sub-granting. The project will hire local residents of the selected disadvantaged communities to aid in the planting and care of these trees.	Various	$750,000

Project Name	Project Description	Location by County	GGRF Funding ($)
San Pedro Urban Forest Ecosystem Restoration Project	Funding to recruit, hire, and train youth and young adults from disadvantaged communities to plant 3,000 drought tolerant trees in a variety of green infrastructure efforts.	Los Angeles	$1,481,999
California ReLeaf 2015 Social Equity Tree Planting Grant Program	Funding to plant and maintain 3,500 trees in disadvantaged communities for greenhouse gas emission reduction and numerous other community benefits through sub-granting.	Various	$749,500
Healthy Trees, Healthy Kids! 2.0	Funding to plant and establish trees in disadvantaged communities to reduce greenhouse gas emissions, reduce stormwater runoff, and provide numerous other community benefits.	San Mateo	$329,711
Ten Thousand Trees 2.0	Funding to employ local residents to plant and maintain trees within disadvantaged communities to reduce greenhouse gas emissions and provide numerous other community benefits.	Contra Costa	$497,266
Modesto Tree Replanting Activity	Funding to plant and maintain 5,000 drought tolerant trees for greenhouse gas benefits and numerous co-benefits. Project also builds local capacity to continue planting and maintaining trees by re-establishing a city-run nursery operation.	Stanislaus	$326,940
Green Trees For Yuba County	Funding to employ local youth to plant and maintain trees in disadvantaged communities to reduce greenhouse gas emissions and provide numerous other community benefits.	Yuba	$291,107
West Sacramento Trees for Tomorrow	Funding to plant and establish trees in and serving disadvantaged communities to reduce greenhouse gas emissions, reduce stormwater runoff, and provide numerous other community benefits.	Yolo	$537,092
Green Tree For The Golden State: Trees for Oakland Flatlands	Funding to employ local youth to plant and maintain trees within disadvantaged communities to reduce greenhouse gas emissions and provide numerous other community benefits.	Alameda	$749,953
Advancing Communities via Forestry and Training	Funding to employ local youth to plant and maintain trees within disadvantaged communities to reduce greenhouse gas emissions and provide numerous other community benefits.	Los Angeles	$675,000
Trees for the Oakland Flatlands	Funding to plant and establish trees in disadvantaged communities to reduce greenhouse gas emissions, reduce stormwater runoff, and provide numerous other community benefits.	Alameda	$310,000
Neighborhood Grow	Funding to plant and maintain 850 drought tolerant trees and 150 fruit trees for greenhouse gas reductions and numerous other community benefits. Project also includes an urban tree planting and care training program.	San Bernardino	$615,200
South LA Carbon Into Canopy: Vermont Corridor	Funding to employ local youth to plant and maintain trees within disadvantaged communities in south Los Angeles to reduce greenhouse gas emissions and provide numerous other community benefits.	Los Angeles	$750,000
Green Trees For Parlier	Funding to plant and establish trees in disadvantaged communities to reduce greenhouse gas emissions, reduce stormwater runoff, and provide numerous other community benefits.	Fresno	$150,000
Tree Planting in Disadvantaged San Fernando Valley Communities	Funding to employ local youth to plant and maintain trees within disadvantaged communities in the San Fernando Valley to reduce greenhouse gas emissions and provide numerous other community benefits.	Los Angeles	$750,000
Trees For All	Funding to employ local young adults to plant and maintain trees within disadvantaged communities to reduce greenhouse gas emissions and provide numerous other community benefits. The project will also provide education and training in tree care.	Santa Clara	$749,984

Project Name	Project Description	Location by County	GGRF Funding ($)
City of San Diego Tree Inventory, Canopy Assessment and Tree Planting	Funding to conduct tree inventory and urban forest canopy assessment to inform the development of a long-term urban forest management plan. Project will plant and trees in disadvantaged communities, contributing to long-term management objectives.	San Diego	$750,000
National City Urban Forest Management Planning	Funding to conduct tree inventory to inform the development of a comprehensive, long-term urban forest management plan. Project will plant and maintain trees in disadvantaged communities, contributing to long-term management objectives.	San Diego	$250,285
Colton Urban Forestry Management Plan and Tree Inventory	Funding to conduct tree inventory to inform the development of a comprehensive, long-term urban forest management plan. Project will plant and maintain trees in disadvantaged communities, contributing to long-term management objectives.	San Bernardino	$173,310
Salinas Forest Management Plan	Funding to conduct an urban forest canopy assessment to inform the development of a long-term urban forest management plan. Project will plant and maintain trees in disadvantaged communities, contributing to long term management objectives.	Monterey	$173,118
Atwater Urban Forest Management Plan for GHG Reduction	Funding to conduct an urban forest canopy assessment to inform the development of a long-term urban forest management plan. Project will plant and maintain trees in disadvantaged communities, contributing to long term management objectives.	Merced	$150,000
City of Patterson "Management Activities for GHG Reduction" Project	Funding to conduct an urban forest canopy assessment to inform the development of a long-term urban forest management plan. Project will plant and maintain trees in disadvantaged communities, contributing to long term management objectives.	Stanislaus	$150,400
Urban Wood Rescue	Funding to mill 1,820 logs from urban tree removals over the project period to create usable products, unique works of art, and basic lumber from logs that would otherwise be sent to a landfill.	Sacramento	$498,303
Department of Resources Recycling and Recovery			
Organics Grant Program			
CR&R Incorporated	Funding to expand the facility's capacity to divert an additional 83,000 tons of waste from landfills per year and produce renewable natural gas transportation fuel and soil amendments.	Riverside	$3,000,000
Burrtec Waste Industries, Incorporated	Funding to build a new covered aerated static pile composting operation that will divert 323,400 tons of waste from landfills over the project life and will generate compost for use as a soil amendment.	San Bernardino	$2,595,080
Colony Energy Partners - Tulare, LLC	Funding to build a high-solids anaerobic codigestion facility that will divert more than 110,000 tons of waste from landfills per year and will produce renewable biomethane. The project also includes a food waste prevention component.	Tulare	$2,925,920
Mid Valley Disposal, Incorporated	Funding to construct a new covered aerated static pile composting operation that will divert 289,700 tons of waste from landfills over the project life and will generate compost for use as a soil amendment.	Fresno	$3,000,000
Recology East Bay	Funding for equipment designed to extract organic material intermingled with mixed solid waste so that it can be anaerobically digested to divert an additional 214,800 tons of waste from landfills over the project life and produce biomethane.	Alameda	$3,000,000

Project Name	Project Description	Location by County	GGRF Funding ($)
Recycled Fiber, Plastic, and Glass Grant Program			
Peninsula Plastics Recycling, Incorporated	Funding for equipment to divert 50,300 tons of waste from landfills over the project life and utilize a combination of bottle labels, fines, and paper sludge as feedstock to produce a range of landscaping material including landscape bender boards.	Stanislaus	$1,000,000
Reliance Carpet Cushion	Funding to increase the diversion of hard-to-recycle post-consumer carpet fiber waste from landfills by 38,633 tons over the project life. The project will create products such as fiber cushion, traffic signs, building signs, and flooring substrate.	Los Angeles	$1,000,000
Command Packaging	Funding for facility upgrades to divert an additional 313,600 tons of waste from landfills over the project life, increase the recycled content of reusable bags, and manufacture a higher quality product capable of 125 reuses over its lifetime.	Los Angeles	$3,000,000
Organics and Recycling Project Loans			
Nursery Products, LLC	Loan to a processor of green waste to divert an additional 877,500 tons of waste from landfills over the project life and produce 3/8" and 1" compost, compost blend, 2" mulch, and bagged compost/top soil.	San Bernardino	$850,000
Harvest Power California, LLC	Loan to a processor of green waste to divert an additional 241,500 tons of waste from landfills over the project life and produce compost of various grades that are sold to the surrounding farms, landscapers, and municipalities.	Tulare	$890,000

12 Differences observed between the June 30, 2015 Strategic Growth Council Agricultural Conservation Easement (ACE) Presentation Summary values compared to this table reflect either increased or decreased ACE appraised values, removal of acreage from the proposed ACE, or increased/decreased ACE direct associated costs. Any resulting increased costs are not funded by the SALC Program.

APPENDIX B

GGRF Budgetary Expenditures (as of November 1, 2015)

Note: "Budgetary expenditures" represent the amount of GGRF monies that have been encumbered and/or expended. This report also refers to implemented and awarded funds in Sections III-VI, which are different measurements and not reflected here. For more information about those definitions, see Section III. A of the report.

Administering Agency	Program	Appropriations ($M)				Budgetary Expenditures[1] ($M)			
		2013-14	2014-15	2015-16	Total	State Operations	Local Assistance	Capital Outlay	Total[2]
High-Speed Rail Authority	High-Speed Rail	$0	$250	$600	$850[3]	N/A	N/A	$259.02	$259.02
California State Transportation Agency	Transit and Intercity Rail Capital Program	$0	$25	$240[4]	$265	$0.36	$0	$0	$0.36
Department of Transportation	Low Carbon Transit Operations Program	$0	$25	$120	$145	$0	$24.17	$0	$24.17
Office of Planning and Research / Strategic Growth Council	Affordable Housing and Sustainable Communities Program	$0	$130	$480	$610	$1.74	$121.96	N/A	$123.70
Air Resources Board	Low Carbon Transportation	$30	$200	$95	$325	$5.36	$207.51	N/A	$212.87
Department of Community Services and Development	Low Income Weatherization Program/Renewable Energy	$0	$75	$79	$154	$3.62	$41.40	N/A	$45.02
Pending[5]	Energy Efficiency in Public Buildings	$0	$20	$0	$20	$0	N/A	N/A	$0

Administering Agency	Program	Appropriations ($M)				Budgetary Expenditures[1] ($M)			
		2013-14	2014-15	2015-16	Total	State Operations	Local Assistance	Capital Outlay	Total[2]
Department of Food and Agriculture	Climate Smart Agriculture	$10	$25	$40	$75	$19.51[6]	$0	N/A	$19.51
Department of Water Resources	Water-Energy Efficiency Program	$30	$20	$20	$70	$0.47	$28	$3.45	$31.92
Department of Fish and Wildlife	Wetlands and Watershed Restoration	$0	$25	$2	$27	$0.95	$21.32	N/A	$22.27
Department of Forestry and Fire Protection	Sustainable Forests	$0	$42	$0	$42	$2.36[7]	$14.55	N/A	$16.91
Department of Resources Recycling and Recovery	Waste Diversion	$0	$25	$6	$31	$0.32	$29.52[8]	N/A	$29.84
Totals for Programs[9]		**$70**	**$862**	**$1,682**	**$2,614**	**$34.69**	**$488.43**	**$262.47**	**$785.59**
Air Resources Board	Fund Administration and Management	$1.30	$9.20	$13.70	$24.20	$12.08	N/A	N/A	$12.08
Office of Environmental Health Hazard Assessment	Identification of Disadvantaged Communities	$0.60	$0.60	$0.69	$1.89	$1.23[10]	N/A	N/A	$1.23
Total for Programs Including Fund Administration, Management, and Other Activities		**$71.9**	**$871.8**	**$1,696.4**	**$2,640.09**	**$78.01**	**$458.43**	**$262.47**	**$798.91**

1. Budgetary expenditure reflects funds encumbered and/or expended.
2. Totals may not sum due to rounding.
3. In addition to the $850M for HSR in the table, SB 862 states that $400 million shall be available to the High Speed Rail Authority beginning in FY 2015-16, as repayment of a loan to the General Fund. This money shall be repaid as necessary, based on the financial needs of the High Speed Rail Project.
4. Appropriation granted to Secretary for Transportation Agency.
5. Although funding for public buildings was initially appropriated to the California Energy Commission, the Administration has proposed in the FY 2016-17 Budget to have Department of General Services administer this program. The California Energy Commission did not receive any GGRF funding in FY 2014-15 or 2015-16.
6. $19.06 million of the $19.51 million in State Operations has been encumbered and/or expended for GHG reduction projects.
7. $1.13 million of $2.36 million in State Operations has been encumbered and/or expended for GHG reduction projects.
8. The amount reflected includes approximately $20 million in local assistance grants and approximately $10 million in loans from the CalRecycle Greenhouse Gas Reduction Revolving Loan Fund (any monies collected by CalRecycle for loan repayments and fees are deposited back into this revolving loan fund).
9. The agency appropriations include both funding for administrative costs and GHG reduction projects.
10. For OEHHA, Budgetary Expenditures are based on end-of-fiscal year Fund Condition Statements for FY2013-14 and FY 2014-15. The total includes the FY2013-14 and FY 2014-15 Fund Condition Statements amounts plus the FY2015-16 cash draws.

APPENDIX C

Statistics on Competitive Project Proposals Received, FY 2014-15 and 2015-16 (as of December 2015)

Agency	Program Category	FY	Response to Solicitation				Percent of Available Funds Requested
			Proposals/Projects Received		Proposals/Projects Selected		
			Number	Amount Requested	Number	Amount Received	
California State Transportation Agency	Transit and Intercity Rail Capital Program	2014-15 / 2015-16	31	$446.7	14	$224.3	199%
Strategic Growth Council	Affordable Housing and Sustainable Communities	2014-2015	146	$716.1	28	$121.9	587%
	Affordable Housing and Sustainable Communities[1]	2015-2016	8	$34.0	8	$32.5	N/A1
	Sustainable Agricultural Lands Conservation – Conservation Easements	2014-15	10	$6.8	6	$3.7	184%
	Sustainable Agricultural Lands Conservation – Strategy Grants	2014-15	10	$0.9	5	$0.5	180%
Air Resources Board	Car Sharing and Mobility Options Pilot to Benefit Disadvantaged Communities	2014-15	13	$16.2	2	$2.0	853%
Department of Water Resources	Water-Energy Efficiency: Incentives	2014-15	96	$142.0	21	$28.0	507%

Agency	Program Category	FY	Response to Solicitation				Percent of Available Funds Requested
			Proposals/Projects Received		Proposals/Projects Selected		
			Number	Amount Requested	Number	Amount Received	
California Department of Food and Agriculture	State Water and Energy Efficiency Program	2013-14	453	$33.4	133	$8.6	388%
	State Water and Energy Efficiency Program	2014-15	345	$30.3	100	$9.5	319%
	Dairy Digesters	2014-15	12	$27.8	5	$11.1	250%
Department of Fish and Wildlife	Sacramento-San Joaquin Delta and Coastal Wetlands	2014-15	11	$32.7	4	$15.4	212%
	Mountain Meadow Ecosystems	2014-15	16	$16.4	8	$5.9	278%
Department of Forestry and Fire Protection	Urban Forest Programs	2014-15	169	$107.4	29	$15.6	688%
	Forest Health Programs	2014-15	79	$27.7	27	$7.7	360%
	Forest Legacy Programs	2014-15	8	$10.5	4	$4.0	263%
Department of Resources Recycling and Recovery	Organics composting/digestion grants	2014-15	51	$118.7	5	$14.5	813%
	Increased recycling manufacturing	2014-15	20	$38.9	3	$5.0	778%

1. These funds represent a smaller FY 2015-16 funding solicitation . A larger solicitation and selection of projects for FY 2015-16 funds was issued in January 2016 and a subscription rate for full FY 2015-16 is not available.

APPENDIX D

Leveraged Funds for Awarded Projects FY 2013-14 through 2015-16

Administering Agency	Program	Total GGRF Awarded ($M)	Total Project Cost ($M)	Funds from Additional Sources ($M)[1]	Leveraged Ratio (Funds from Additional Sources / GGRF Awarded)
Formula Calculation		A	B	C	D = C/A
High Speed Rail Authority	High Speed Rail	$850.0	TBD	TBD	TBD
California State Transportation Agency	Transit and Intercity Rail Capital Program	$224.3	$720.6	$496.3	2.21
Department of Transportation	Low Carbon Transit Operations	$24.2	$235.8	$211.6	8.74
Strategic Growth Council	Affordable Housing and Sustainable Communities	$154.4	$1,218.4	$1,064.0	6.89
	Sustainable Agricultural Lands Conservation	$4.2	$11.5	$7.3	1.74

Administering Agency	Program	Total GGRF Awarded ($M)	Total Project Cost ($M)	Funds from Additional Sources ($M)[1]	Leveraged Ratio (Funds from Additional Sources / GGRF Awarded)
Air Resources Board	Clean Vehicle Rebate Project	$204.5	$3,900[2]	$3,700	18.09
	Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project	$19.9	$71.9	$52	2.61
	Enhanced Fleet Modernization Program Plus Up	$12.0	$64.3	$52.3	4.36
	Car Sharing and Mobility Options Pilot	$2.0	$8.5	$6.5	3.25
	Public Fleets Increased Incentives Pilot	$2.9	$12.6	9.8	3.38
Department of Community Services and Development	Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	$24.0	TBD	TBD[3]	TBD
	Single-Family Solar Photovoltaics	$22.3	TBD	TBD[4]	TBD
	Large Multi-Family Energy Efficiency and Renewables	$24.0	TBD	TBD[5]	TBD
California Department of Food and Agriculture	Dairy Digesters	$11.1	$30.2	$19.1	1.72
	State Water and Energy Efficiency Program	$18.1	$29.6	$11.5	0.64
Department of Water Resources	Water-Energy Grant Program	$27.8	$32.8	$4.8	0.17
	Turbines	$20.0	$29.3	$9.3	0.47
Department of Fish and Wildlife	Sacramento-San Joaquin Delta and Coastal Wetlands Restoration	$15.4	$27.8	$12.4	0.81
	Mountain Meadow Ecosystems Restoration	$5.9	$8.6	$2.7	0.46
Department of Forestry and Fire Protection (CalFIRE)	Forest Health Program	$7.7	$15.2	$7.5	0.97
	Forest Legacy Program	$4.0	$18.5	$14.5	3.63
	Urban and Community Forestry Program	$15.6	$21.9	$6.3	0.40
Department of Resources Recycling and Recovery (CalRecycle)	Organics Composting/Digestion Grants	$14.5	$55.9	$41.4	2.86
	Recycling Manufacturing	$5.0	$19.0	14.0	2.80
	Organics and Recycling Project Loans	$1.7	$2.3	$0.6	0.35

1. Additional sources include private, federal, local, and may include other state funds.
2. Leveraging based on average MSRP of vehicles rebated in 2015 scaled to full CVRP in 2015.
3. Leveraged dollars will include federal Low Income Home Energy Assistance Program (LIHEAP), Weatherization Assistance Program, and Energy Crisis Intervention Program (ECIP) funds, and California Solar Initiative (CSI) Thermal Program Rebates.
4. Sources of leveraged dollars will vary depending on project.
5. Leveraged dollars will include CSI Single-Family Affordable Solar Homes (SASH) Program.

APPENDIX E

List of Public Meetings Held (January 2013 – December 2015)

Agencies administering GGRF monies held numerous public meetings in various locations across the State and by webinar to solicit public input and inform potential grant or loan recipients of funding requirements. The following is a list of meetings held by each administering agency and program.

Agency	Program or Program Category	Event Date	Remote Format	City	Estimated Number of Attendees
CalFIRE	All	8/14/2015	Conference Call	Sacramento	15
CalFIRE	All	8/14/2015	Conference Call	Sacramento	15
CalFIRE	All Urban and Community Forestry Categories	9/24/2014	Webinar	n/a	150
CalFIRE	All Urban and Community Forestry Categories	9/29/2014		San Diego	30
CalFIRE	All Urban and Community Forestry Categories	9/30/2014		Fresno	15
CalFIRE	All Urban and Community Forestry Categories	10/1/2014		Los Angeles	56
CalFIRE	All Urban and Community Forestry Categories	10/1/2014		Stockton	12
CalFIRE	All Urban and Community Forestry Categories	10/2/2014		San Bernardino	60
CalFIRE	All Urban and Community Forestry Categories	10/2/2014		Oakland	35
CalFIRE	All	10/14/2014		Dublin	40
CalFIRE	All	10/15/2014		Sacramento	30
CalFIRE	All	10/16/2014		San Marcos	40

Agency	Program or Program Category	Event Date	Remote Format	City	Estimated Number of Attendees
CalFIRE	All Urban and Community Forestry Categories	10/20/2014	Webinar	n/a	150
CalFIRE	All	10/21/2014		Ukiah	40
CalFIRE	All	10/22/2014		Auburn	40
CalFIRE	All Urban and Community Forestry Categories	10/22/2014		Modesto	20
CalFIRE	All Urban and Community Forestry Categories	10/23/2014		Webinar	150
CalFIRE	All	10/23/2014		Redding	40
CalFIRE	All	10/28/2014		Riverside	40
CalFIRE	All	10/29/2014		Fresno	30
CalFIRE	All	11/3/2014		Sutter Creek	30
CalFIRE	All	11/4/2014		Eureka	30
CalFIRE	All	11/6/2014		Sonora	30
DFW	Sacramento-San Joaquin Delta and Coastal Wetlands & Mountain Meadow Ecosystems	9/11/2014	Webcast	Sacramento	105
ARB	2013-14 Funding Plan	1/23/2013	Webcast	Sacramento	50 + webcast
ARB	2013-14 Funding Plan	4/3/2013	Webcast	Sacramento	50 + webcast
ARB	2013-14 Funding Plan	7/25/2013	Webcast	Sacramento	50 + webcast
ARB	CVRP	4/25/2014	Webcast	Sacramento	50 + webcast
ARB	HVIP	1/8/2014	Teleconference	n/a	20
ARB	HVIP	3/14/2013	Teleconference	n/a	20
ARB	HVIP	4/22/2013	Teleconference	n/a	20
ARB	HVIP	10/14/2013	Teleconference	n/a	20
ARB	HVIP	2/19/2014	Teleconference	Sacramento	20
ARB	HVIP	7/22/2014	Teleconference	Sacramento	20
ARB	2014-15 Funding Plan	1/28/2014	Webcast	Sacramento	50 + webcast
ARB	2014-15 Funding Plan	4/3/2014	Webcast	Sacramento	50 + webcast
ARB	2014-15 Funding Plan	6/26/2014	Webcast	Sacramento	50 + webcast
ARB	AQIP Long Term Plan Work Group	2/12/2014	Teleconference	Sacramento	20
ARB	AQIP Long Term Plan Work Group	2/19/2014	Teleconference	Sacramento	20
ARB	CVRP & Pilot Projects to Benefit Disadvantaged Communities	2/13/2014	Teleconference	Sacramento	65
ARB	CVRP & Pilot Projects to Benefit Disadvantaged Communities	2/24/2014	Teleconference	Sacramento	65
ARB	CVRP	8/6/2014	Teleconference	n/a	25
ARB	CVRP	10/28/2014	Teleconference	n/a	25

Agency	Program or Program Category	Event Date	Remote Format	City	Estimated Number of Attendees
ARB	Implementation of Pilot Projects to Benefit Disadvantaged Communities and Advanced Technology Freight Demonstration Projects	10/14/2014	Teleconference	Sacramento	50
ARB	Car Sharing and Mobility Options Pilot Project to Benefit Disadvantaged Communities	10/16/2014	Teleconference	Sacramento	45
ARB	Car Sharing and Mobility Options Pilot Project to Benefit Disadvantaged Communities	11/14/2014	Teleconference	Sacramento	35
ARB	Car Sharing and Mobility Options Pilot Project to Benefit Disadvantaged Communities	3/10/2015	Teleconference	n/a	35
ARB	Car Sharing and Mobility Options Pilot Project to Benefit Disadvantaged Communities	3/24/2015	Teleconference	n/a	35
ARB	Increased Incentives for Public Fleets to Benefit Disadvantaged Communities	10/30/2014	Teleconference	Sacramento	25
ARB	EFMP Plus Up Pilot Project to Benefit Disadvantaged Communities	11/5/2014	Teleconference	Sacramento	25
ARB	EFMP Plus Up Pilot Project to Benefit Disadvantaged Communities	12/17/2014	Teleconference	Sacramento	30
ARB	Financing Assistance Pilot Project to Benefit Disadvantaged Communities	10/28/2014	Teleconference	Sacramento	45
ARB	Financing Assistance Pilot Project to Benefit Disadvantaged Communities	12/4/2014	Teleconference	Sacramento	30
ARB	Financing Assistance Pilot Project to Benefit Disadvantaged Communities	4/16/2015	Teleconference	n/a	30
ARB	HVIP	4/8/2015	Teleconference	Sacramento	10
ARB	Advanced Technology Freight Demonstration Projects	2/18/2014	Teleconference	Sacramento	30
ARB	Advanced Technology Freight Demonstration – Multi-Source Facilities	11/18/2014	Teleconference	Sacramento	75
ARB	Advanced Technology Freight Demonstration – Multi-Source Facilities	12/11/2014	Teleconference	Sacramento	75
ARB	Advanced Technology Freight Demonstration – Multi-Source Facilities	7/21/2015	Teleconference	Sacramento	75
ARB	Advanced Technology Freight Demonstration – Zero-Emission Drayage Trucks	10/27/2014	Teleconference	Sacramento	75
ARB	Advanced Technology Freight Demonstration – Zero-Emission Drayage Trucks	11/20/2014	Teleconference	Sacramento	75
ARB	Advanced Technology Freight Demonstration – Zero-Emission Drayage Trucks	7/16/2015	Teleconference	Sacramento	75

Agency	Program or Program Category	Event Date	Remote Format	City	Estimated Number of Attendees
ARB	Zero-Emission Truck and Bus Pilot Projects	2/27/2015	Teleconference	Sacramento	115
ARB	Zero-Emission Truck and Bus Pilot Projects	3/13/2015	Teleconference	Sacramento	75
ARB	Zero-Emission Truck and Bus Pilot Projects	6/8/2015	Teleconference	Sacramento	140
ARB	Zero-Emission Truck and Bus Pilot Projects	10/21/2015	Teleconference	Sacramento	125
ARB	Heavy-Duty Projects – Data Collection	6/11/2015	Webcast	Sacramento	50
ARB	2015-16 Funding Plan	11/7/2014	Webcast	Sacramento	50 + webcast
ARB	2015-16 Funding Plan	1/23/2015	Webcast	Sacramento	50 + webcast
ARB	2015-16 Funding Plan – SB 1204 Metrics	2/17/2015	Teleconference	Sacramento	50
ARB	2015-16 Funding Plan – Heavy-Duty Projects	2/17/2015	Teleconference	Sacramento	50
ARB	2015-16 Funding Plan	3/26/2015	Webcast	Sacramento	50 + webcast
ARB	2015-16 Funding Plan	6/25/2015	Webcast	Sacramento	50 + webcast
ARB	2015-16 Funding Plan	10/22/2015	Webcast	Diamond Bar + Sacramento video conference	50 + webcast
ARB	CVRP	2/5/2015	Teleconference	Sacramento	50
ARB	CVRP	3/12/2015	Teleconference	Sacramento	50
ARB	CVRP	11/18/2015	Teleconference	n/a	50
ARB	Light-Duty Pilot Projects to Benefit Disadvantaged Communities	2/12/2015	Teleconference	Sacramento	50
ARB	Light-Duty Pilot Projects to Benefit Disadvantaged Communities	11/17/2015	Teleconference	Sacramento	50
ARB	HVIP	2/24/2015	Teleconference	Sacramento	50
ARB	HVIP	9/2/2015	Teleconference	Sacramento	25
ARB	School Buses in Rural School Districts Pilot Project	11/16/2015	Teleconference	Sacramento	50
CalRecycle	Greenhouse Gas Reduction Grant and Loan Programs	3/19/2015		Sacramento	80
CalRecycle	Greenhouse Gas Reduction Grant and Loan Programs	3/18/2014		Sacramento	100+
CalRecycle	Greenhouse Gas Reduction Grant and Loan Programs	2/6/2014		Sacramento	57 + 275 webinar
CalSTA	Transit and Intercity Rail Capital Program	8/21/2014		San Jose	55
CalSTA	Transit and Intercity Rail Capital Program	8/22/2014		Sacramento	50
CalSTA	Transit and Intercity Rail Capital Program	8/27/2014		Los Angeles	60
CalSTA	Transit and Intercity Rail Capital Program	10/10/2014	Webinar	n/a	65
CalSTA	Transit and Intercity Rail Capital Program	12/10/2014		San Bernardino	50
CalSTA	Transit and Intercity Rail Capital Program	12/17/2014		Sacramento	55
CalSTA	Transit and Intercity Rail Capital Program	1/20/2015		Los Angeles	20

Agency	Program or Program Category	Event Date	Remote Format	City	Estimated Number of Attendees
CalSTA	Transit and Intercity Rail Capital Program	1/20/2015		Sacramento	75
CalSTA	Transit and Intercity Rail Capital Program	1/21/2015		Sacramento	30
CalSTA	Transit and Intercity Rail Capital Program	1/22/2015		Sacramento	50
Caltrans	Low Carbon Transit Operations Program	8/21/2014		San Jose	55
Caltrans	Low Carbon Transit Operations Program	8/22/2014		Sacramento	50
Caltrans	Low Carbon Transit Operations Program	8/27/2014		Los Angeles	60
Caltrans	Low Carbon Transit Operations Program	10/10/2014	Webinar		65
Caltrans	Low Carbon Transit Operations Program	12/10/2014		San Bernardino	50
Caltrans	Low Carbon Transit Operations Program	12/17/2014		Sacramento	55
Caltrans	Low Carbon Transit Operations Program	8/18/2015		Los Angeles	35
Caltrans	Low Carbon Transit Operations Program	8/19/2015		San Diego	6
Caltrans	Low Carbon Transit Operations Program	8/21/2015		Sacramento	26
Caltrans	Low Carbon Transit Operations Program	8/25/2015		Oakland	31
Caltrans	Low Carbon Transit Operations Program	11/3/2015		Fresno	21
CDFA	DDRDP – Phase I Stakeholder input	11/6/2014		Modesto	12
CDFA	DDRDP – Phase I Stakeholder input	11/10/2014		Tulare	7
CDFA	DDRDP – Phase I Stakeholder input	11/13/2014		Sacramento	14
CDFA	DDRDP – Phase I Application workshop	1/21/2015		Tulare	13
CDFA	DDRDP – Phase I Application workshop	1/27/2015	Webinar	n/a	26
CDFA	DDRDP – Phase I Application workshop	1/28/2015		Sacramento	12
CDFA	DDRDP – Phase II Stakeholder input	3/4/2015		Sacramento	60
CDFA	DDRDP – Phase II Application Workshop Webinar	4/23/2015	Online broadcast	n/a	8
CDFA	SWEEP	4/11/2014		Sacramento	30
CDFA	SWEEP	4/18/2014		Modesto	25
CDFA	SWEEP	5/8/2014		Tulare	15
CDFA	SWEEP	6/18/2014		Modesto	8
CDFA	SWEEP	6/19/2014		Salinas	4
CDFA	SWEEP	6/25/2014		Ventura	6
CDFA	SWEEP	6/26/2014		Tulare	17
CDFA	SWEEP	6/30/2014		Oroville	5
CDFA	SWEEP	7/8/2014	Webinar	n/a	15

Agency	Program or Program Category	Event Date	Remote Format	City	Estimated Number of Attendees
CDFA	SWEEP	10/6/2014		Fresno	14
CDFA	SWEEP	10/8/2014		San Luis Obispo	8
CDFA	SWEEP	10/13/2014		Sacramento	15
CDFA	SWEEP	10/16/2014		Webinar	20
CDFA	SWEEP	5/28/2015		Sacramento	21
CDFA	SWEEP	6/1/2015		San Martin	9
CDFA	SWEEP	6/2/2015		Tulare	46
CDFA	SWEEP	6/3/2015		Ventura	17
CDFA	SWEEP	6/9/2015		Oroville	17
CDFA	SWEEP	12/1/2015		Bakersfield	27
CDFA	SWEEP	12/4/2015		Costa Mesa	8
CDFA	SWEEP	12/8/2015		Sacramento	31
CDFA	SWEEP	12/9/2015		Merced	18
CDFA	SWEEP	12/10/2015		Webinar	50
CSD	Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating; Single-Family Solar Photovoltaics	9/17/2014		Sacramento	10
CSD	Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating; Single-Family Solar Photovoltaics	9/24/2014		Fresno	6
CSD	Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating; Single-Family Solar Photovoltaics	9/25/2014		Los Angeles	10
CSD	Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating; Single-Family Solar Photovoltaics	12/15/2014		Sacramento	12
CSD	Large Multi-Family Energy Efficiency and Renewables	9/9/2015	Webinar	Sacramento	24
CSD	Large Multi-Family Energy Efficiency and Renewables	9/15/2015		Fresno	1
CSD	Large Multi-Family Energy Efficiency and Renewables	9/16/2015		Los Angeles	7
DWR	Water-Energy Grant Program	5/9/2014		Fresno	30
DWR	Water-Energy Grant Program	5/12/2014		Sacramento	30
DWR	Water-Energy Grant Program	8/19/2014		Chino	30
DWR	Water-Energy Grant Program	8/21/2014		Fresno	10
DWR	Water-Energy Grant Program	8/25/2014		Sacramento	25
DWR	Water-Energy Grant Program	10/28/2014		Sacramento	30
DWR	Water-Energy Grant Program	10/30/2014		Riverside	35

Agency	Program or Program Category	Event Date	Remote Format	City	Estimated Number of Attendees
DWR	Water-Energy Grant Program	11/5/2014		Fresno	25
SGC	Affordable Housing and Sustainable Communities	7/10/2014		Sacramento	75
SGC	Affordable Housing and Sustainable Communities	10/6/2014		Sacramento	95
SGC	Affordable Housing and Sustainable Communities	10/23/2014		Merced	20
SGC	Affordable Housing and Sustainable Communities	10/24/2014		Oakland	165
SGC	Affordable Housing and Sustainable Communities	10/27/2014	Video Conference	Los Angeles	210
SGC	Affordable Housing and Sustainable Communities	10/28/2014		Sacramento	110
SGC	Affordable Housing and Sustainable Communities	1/20/2015		Sacramento	120
SGC	Affordable Housing and Sustainable Communities	2/4/2015		San Diego	45
SGC	Affordable Housing and Sustainable Communities	2/5/2015		San Bernardino	36
SGC	Affordable Housing and Sustainable Communities	2/6/2015		Los Angeles	113
SGC	Affordable Housing and Sustainable Communities	2/9/2015		Bakersfield	21
SGC	Affordable Housing and Sustainable Communities	2/10/2015		Stockton	47
SGC	Affordable Housing and Sustainable Communities	2/12/2015		Oakland	129
SGC	Affordable Housing and Sustainable Communities	7/14/2015		Sacramento	110
SGC	Affordable Housing and Sustainable Communities	7/20/2015		Los Angeles	200
SGC	Affordable Housing and Sustainable Communities	10/19/2015		Sacramento	35
SGC	Affordable Housing and Sustainable Communities	10/21/2015	Video Conference	Los Angeles	87
SGC	Affordable Housing and Sustainable Communities	10/23/2015		Oakland	65
SGC	Affordable Housing and Sustainable Communities	10/26/2015		Fresno	33
SGC	Sustainable Agricultural Lands Conservation Program	10/24/2014		Oroville	7
SGC	Sustainable Agricultural Lands Conservation Program	10/29/2014		Bakersfield	11
SGC	Sustainable Agricultural Lands Conservation Program	10/30/2014		Watsonville	17
SGC	Sustainable Agricultural Lands Conservation Program	8/14/2015		Sacramento	9
SGC	Sustainable Agricultural Lands Conservation Program	11/10/2015		Tulare	13
SGC	Sustainable Agricultural Lands Conservation Program	11/13/2015		Santa Rosa	17
SGC	Sustainable Agricultural Lands Conservation Program	11/16/2015		Camarillo	15
HSRA	High-Speed Rail	7/1/2014		Fresno	82
HSRA	High-Speed Rail	7/16/2014		Fresno	12
HSRA	High-Speed Rail	8/5/2014		Newhall	73
HSRA	High-Speed Rail	8/6/2014		Buena Vista	110

Agency	Program or Program Category	Event Date	Remote Format	City	Estimated Number of Attendees
HSRA	High-Speed Rail	8/7/2014		Santa Rosa	4
HSRA	High-Speed Rail	8/7/2014		Palmdale	80
HSRA	High-Speed Rail	8/11/2014		Acton	300
HSRA	High-Speed Rail	8/12/2014		Sylmar	68
HSRA	High-Speed Rail	8/12/2014		Sacramento	90
HSRA	High-Speed Rail	8/14/2014		Los Angeles	165
HSRA	High-Speed Rail	8/19/2014		Los Angeles	125
HSRA	High-Speed Rail	8/28/2014		Chowchilla/Bus Tour	10
HSRA	High-Speed Rail	9/6/2014		Fresno	13
HSRA	High-Speed Rail	9/15/2014		Wasco	35
HSRA	High-Speed Rail	9/16/2014		Palmdale	150
HSRA	High-Speed Rail	9/25/2014		Sylmar	13
HSRA	High-Speed Rail	10/14/2014		Sacramento	Board of Directors
HSRA	High-Speed Rail	10/17/2014		Sanger	56
HSRA	High-Speed Rail	10/24/2014		Orange Cove	120
HSRA	High-Speed Rail	11/13/2014		Fresno	121
HSRA	High-Speed Rail	11/14/2014		Reedley	57
HSRA	High-Speed Rail	11/18/2014		Sacramento	22
HSRA	High-Speed Rail	12/2/2014		Santa Clarita	53
HSRA	High-Speed Rail	12/3/2014		Sun Valley	272
HSRA	High-Speed Rail	12/4/2014		Acton	75
HSRA	High-Speed Rail	12/5/2014		Bakersfield	117
HSRA	High-Speed Rail	12/8/2014		Burbank	98
HSRA	High-Speed Rail	12/9/2014		San Fernando	106
HSRA	High-Speed Rail	12/10/2014		San Fernando	104
HSRA	High-Speed Rail	12/13/2014		Acton	235
HSRA	High-Speed Rail	1/13/2015		Sacramento	50
HSRA	High-Speed Rail	1/20/2015		Chowchilla	299
HSRA	High-Speed Rail	1/21/2015		Chowchilla	124
HSRA	High-Speed Rail	1/23/2015		Sacramento	130
HSRA	High-Speed Rail	2/4/2015		Visalia	13

Agency	Program or Program Category	Event Date	Remote Format	City	Estimated Number of Attendees
HSRA	High-Speed Rail	2/13/2015		West Sacramento	65
HSRA	High-Speed Rail	2/14/2015		Sacramento	49
HSRA	High-Speed Rail	2/23/2015		Sun Valley	36
HSRA	High-Speed Rail	2/24/2015		San Fernando	40
HSRA	High-Speed Rail	2/25/2015		Sylmar	32
HSRA	High-Speed Rail	2/27/2015		Bakersfield	14
HSRA	High-Speed Rail	3/2/2015		Acton	18
HSRA	High-Speed Rail	3/3/2015		Santa Clarita	39
HSRA	High-Speed Rail	3/4/2015		Visalia	11
HSRA	High-Speed Rail	3/4/2015		Buena Vista	28
HSRA	High-Speed Rail	3/6/2015		Fresno	133
HSRA	High-Speed Rail	3/7/2015		Acton	28
HSRA	High-Speed Rail	3/9/2015		Santa Clarita	28
HSRA	High-Speed Rail	3/9/2015		Sun Valley	36
HSRA	High-Speed Rail	3/10/2015		Sacramento	38
HSRA	High-Speed Rail	3/27/2015		Bakersfield	11
HSRA	High-Speed Rail	4/2/2015		Visalia	7
HSRA	High-Speed Rail	4/13/2015		Buena Vista	13
HSRA	High-Speed Rail	4/14/2015		Sun Valley	58
HSRA	High-Speed Rail	4/14/2015		San Francisco	32
HSRA	High-Speed Rail	4/16/2015		Wasco	46
HSRA	High-Speed Rail	4/16/2015		Sylmar	14
HSRA	High-Speed Rail	4/20/2015		Sun Valley	29
HSRA	High-Speed Rail	4/21/2015		Wasco	24
HSRA	High-Speed Rail	4/21/2015		Pacoima	40
HSRA	High-Speed Rail	4/22/2015		Santa Clarita	19
HSRA	High-Speed Rail	4/23/2015		San Fernando	14
HSRA	High-Speed Rail	4/24/2015		Bakersfield	10
HSRA	High-Speed Rail	4/25/2015		Acton	41
HSRA	High-Speed Rail	4/27/2015		Fresno	10
HSRA	High-Speed Rail	4/27/2015		Acton	11

Agency	Program or Program Category	Event Date	Remote Format	City	Estimated Number of Attendees
HSRA	High-Speed Rail	4/30/2015		Fresno	182
HSRA	High-Speed Rail	5/2/2015		Visalia	14
HSRA	High-Speed Rail	5/12/2015		Sacramento	45
HSRA	High-Speed Rail	5/16/2015		Pacoima	82
HSRA	High-Speed Rail	5/18/2015		Buena Vista	100
HSRA	High-Speed Rail	5/19/2015		Sun Valley	53
HSRA	High-Speed Rail	5/22/2015		Bakersfield	16
HSRA	High-Speed Rail	5/27/2015		Sylmar	75
HSRA	High-Speed Rail	5/28/2015		Fresno	105
HSRA	High-Speed Rail	5/28/2015		San Fernando	100
HSRA	High-Speed Rail	5/30/2015		Tujunga	205
HSRA	High-Speed Rail	6/1/2015		Santa Clarita	152
HSRA	High-Speed Rail	6/2/2015		Visalia	8
HSRA	High-Speed Rail	6/2/2015		Palmdale	60
HSRA	High-Speed Rail	6/6/2015		Acton	130
HSRA	High-Speed Rail	6/9/2015		Los Angeles	500
HSRA	High-Speed Rail	6/10/2015		Wasco	105
HSRA	High-Speed Rail	6/11/2015		Fresno	11
HSRA	High-Speed Rail	6/12/2015		Bakersfield	45
HSRA	High-Speed Rail	6/16/2015		Sacramento	60
HSRA	High-Speed Rail	6/17/2015		Reedley	65
HSRA	High-Speed Rail	6/18/2015		Fresno	30
HSRA	High-Speed Rail	6/24/2015		Wasco	68
HSRA	High-Speed Rail	6/26/2015		Bakersfield	13
HSRA	High-Speed Rail	7/7/2015		Visalia	4
HSRA	High-Speed Rail	7/30/2015		Bakersfield	250
HSRA	High-Speed Rail	8/4/2015		Visalia	3
HSRA	High-Speed Rail	8/4/2015		Sacramento	29
HSRA	High-Speed Rail	8/12/2015		San Francisco	100
HSRA	High-Speed Rail	8/18/2015		Fresno	14
HSRA	High-Speed Rail	8/25/2015		Bakersfield	289
HSRA	High-Speed Rail	9/8/2015		Sacramento	1

Agency	Program or Program Category	Event Date	Remote Format	City	Estimated Number of Attendees
HSRA	High-Speed Rail	9/8/2015		San Francisco	60
HSRA	High-Speed Rail	9/10/2015		Fresno	63
HSRA	High-Speed Rail	9/15/2015		Fresno	15
HSRA	High-Speed Rail	9/15/2015		San Jose	75
HSRA	High-Speed Rail	9/17/2015		Shafter	85
HSRA	High-Speed Rail	9/23/2015		Morgan Hill	65
HSRA	High-Speed Rail	9/25/2015		Bakersfield	17
HSRA	High-Speed Rail	9/30/2015		Bakersfield	61
HSRA	High-Speed Rail	10/1/2015		Tehachapi	Not Reported
HSRA	High-Speed Rail	10/5/2015		Mojave	Not Reported
HSRA	High-Speed Rail	10/6/2015		Rosamond	Not Reported
HSRA	High-Speed Rail	10/7/2015		Lancaster	Not Reported
HSRA	High-Speed Rail	10/7/2015		Burlingame	125
HSRA	High-Speed Rail	10/15/2015		Anaheim	Not Reported
HSRA	High-Speed Rail	10/17/2015		Pico Rivera	Not Reported
HSRA	High-Speed Rail	10/21/2015		Norwalk	Not Reported
HSRA	High-Speed Rail	10/26/2015		Fullerton	Not Reported
HSRA	High-Speed Rail	10/28/2015		Buena Park	Not Reported
HSRA	High-Speed Rail	11/5/2015		Bakersfield	213
HSRA	High-Speed Rail	11/10/2015		Los Angeles	Not Reported
HSRA	High-Speed Rail	11/16/2015		Glendale	Not Reported
HSRA	High-Speed Rail	11/19/2015		Los Angeles	Not Reported
HSRA	High-Speed Rail	11/19/2015		Easton	35
HSRA	High-Speed Rail	11/24/2015		Hanford	60
HSRA	High-Speed Rail	12/1/2015		Corcoran	16
HSRA	High-Speed Rail	12/1/2015		Sacramento	38
HSRA	High-Speed Rail	12/3/2015		Allensworth	12

For more information, contact:

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