# 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

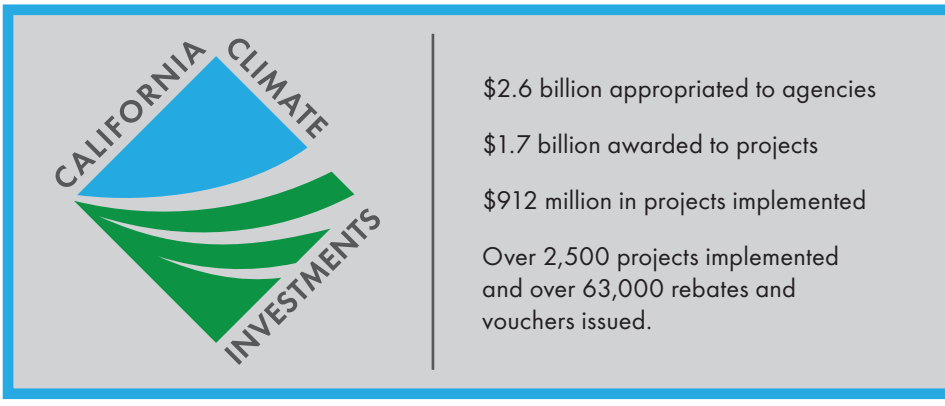
# EXECUTIVE SUMMARY

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.




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 | Water Energy Efficiency | $30 | $20 | $20 | $70 |
| California Department of Fish & Wildlife | 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.

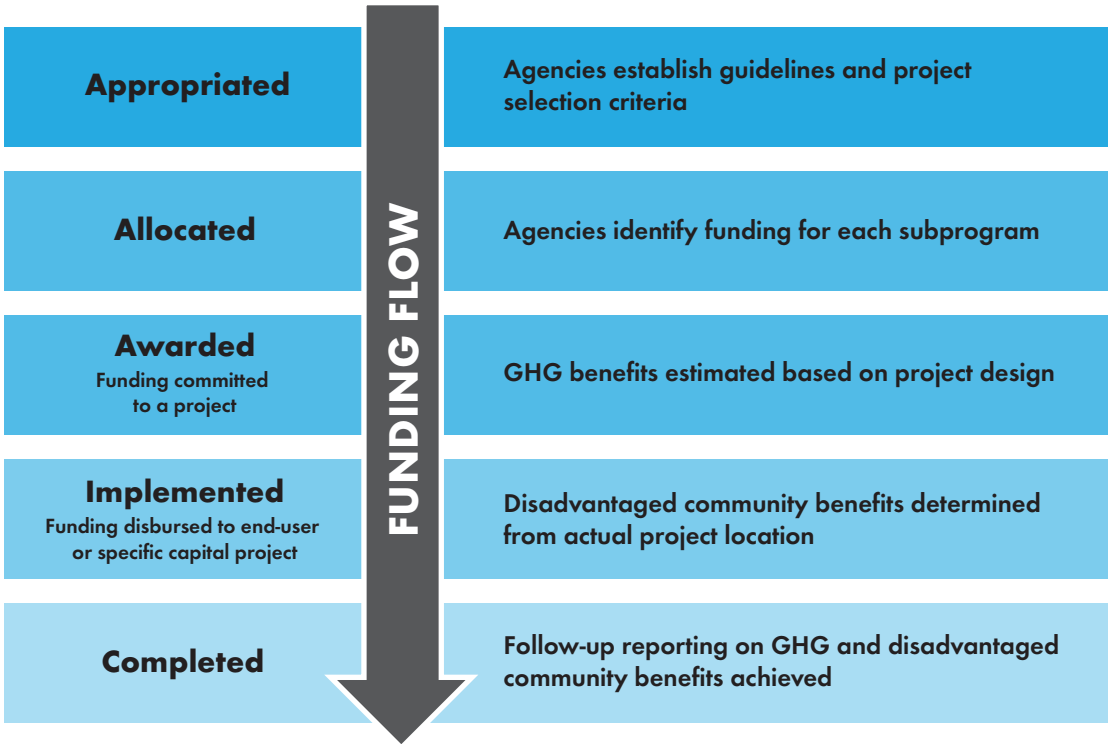
2 Although funding for public buildings was initially appropriated to the California Energy Commission, the Administration has proposed in the FY 2016-17 Budget to have Department of General Services administer this program. The California Energy Commission did not receive any GGRF funding in FY 2014-15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

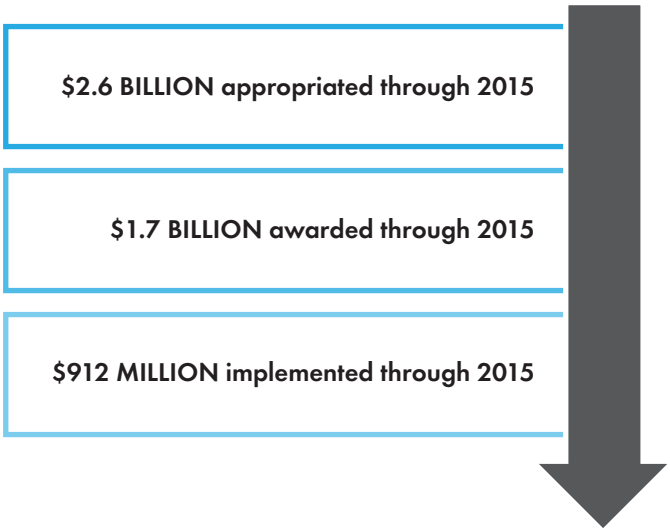



Because the specific location of a project is not needed to quantify the expected GHG reductions of a project, this report includes GHG reduction estimates for "Awarded" funds. Once an agency identifies the specific location of a project, the agency can determine whether or not the project is located 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

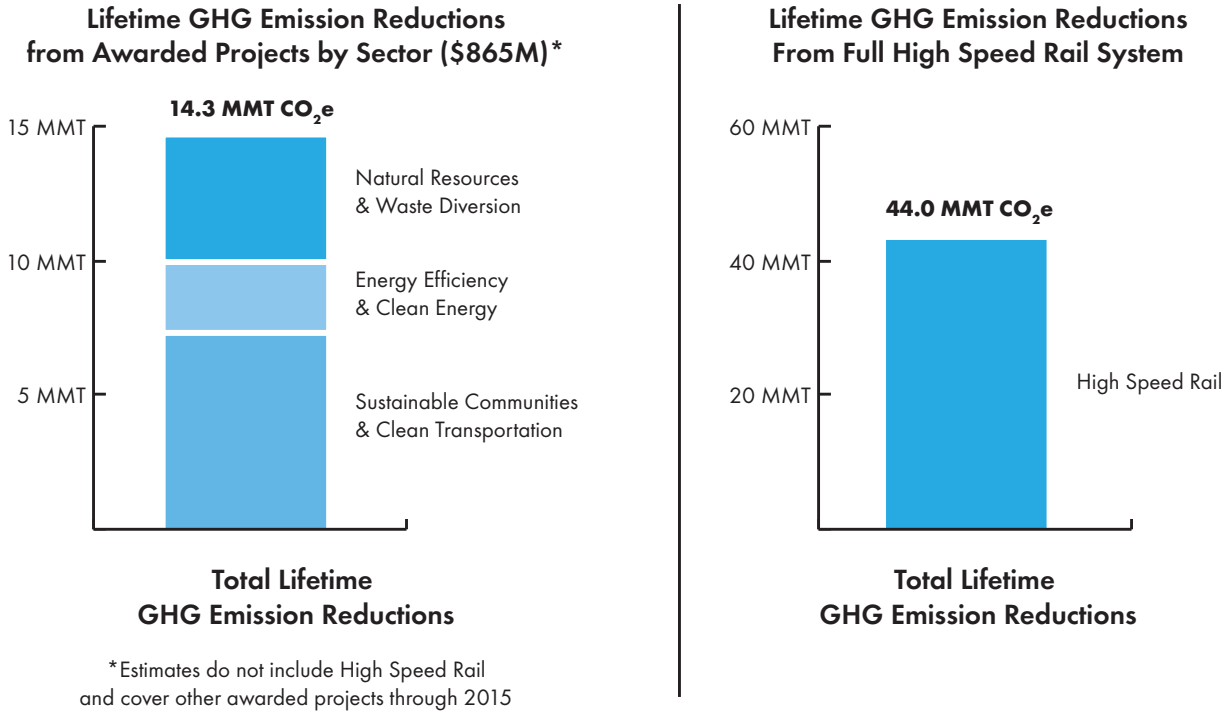
**Projects are Highly Leveraged**

- 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**

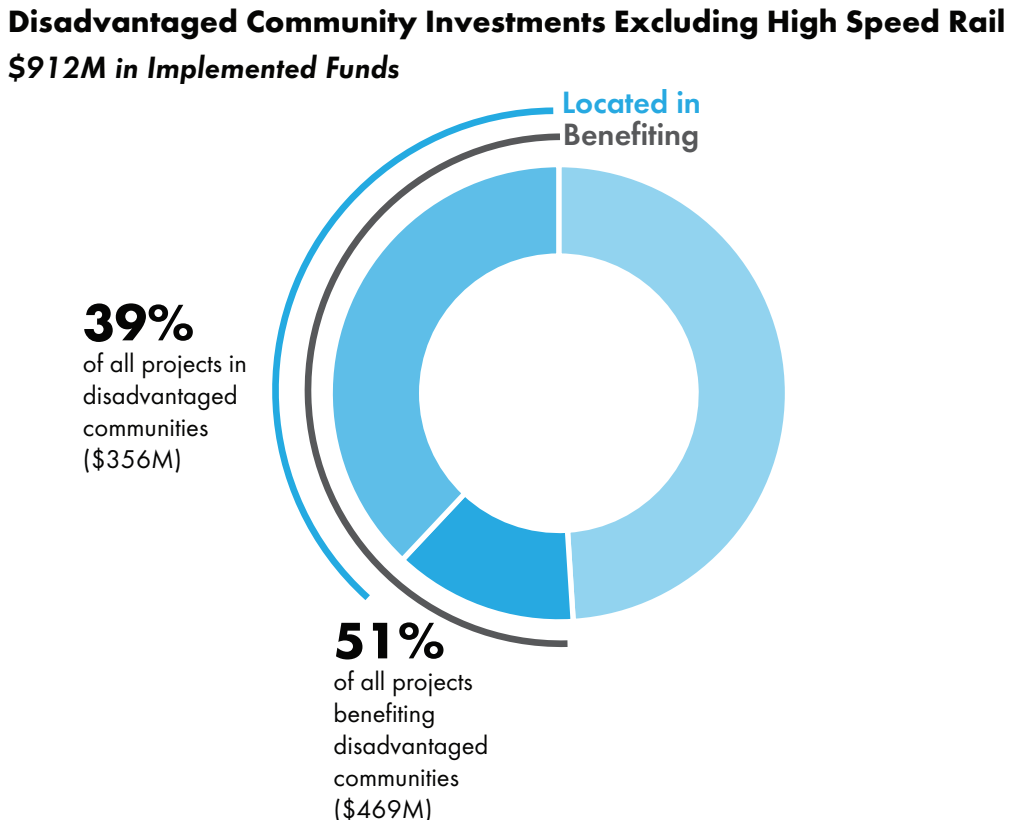



3 The HSRA's GHG reduction estimates are based on the June 2013 assessment, Contribution of the High-Speed Rail Program to Reducing California's Greenhouse Gas Emission Levels. The HSRA is in the process of updating the Draft 2016 Business Plan, which may change the GHG reduction estimates for this project.

## 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%** |

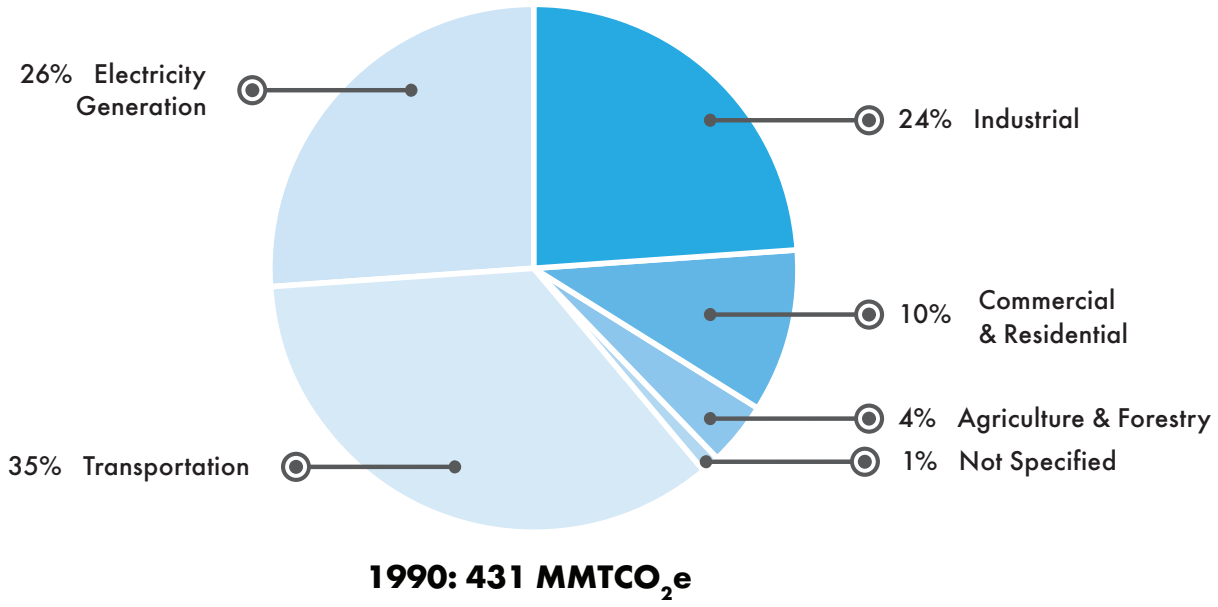
1. GHG estimates are based on ARB's quantification methodology.
2. The High Speed Rail Project is expected to reduce GHG emissions by 44 million $MTCO_2e$ over its operating life. This report includes the estimated GHG reductions from the complete High Speed Rail System, but does not attribute these 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").

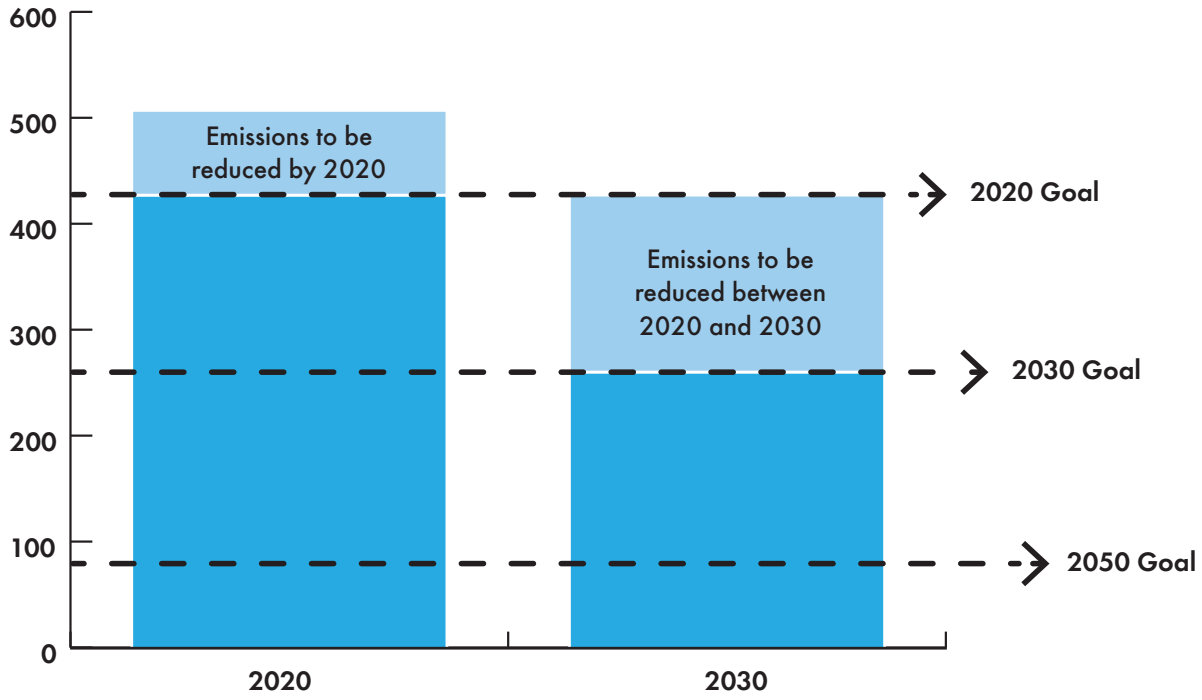
According to ARB's emission inventory, shown in Figure 1, 1990 emission levels were equal to 431 million $MTCO_2e$.

**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

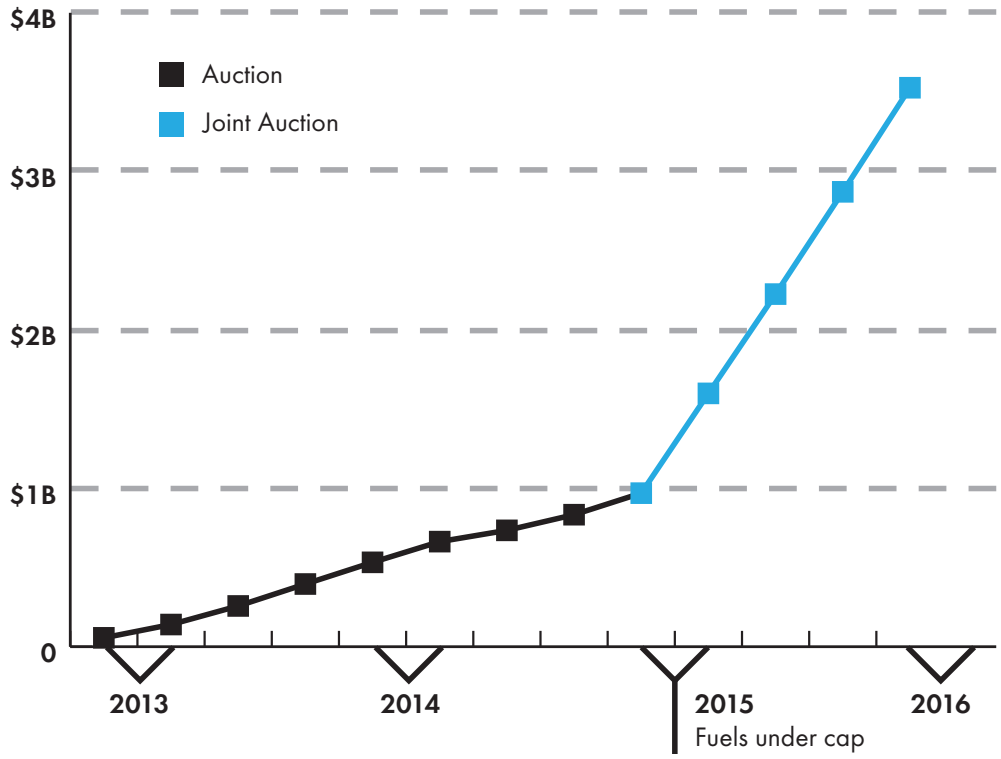
The Cap-and-Trade Program is a key element of California's GHG emission reduction strategy. The Program creates a limit on the emissions from sources responsible for 85 percent of California's GHG emissions, establishes the price signal needed to drive long-term investment in cleaner fuels and more efficient 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

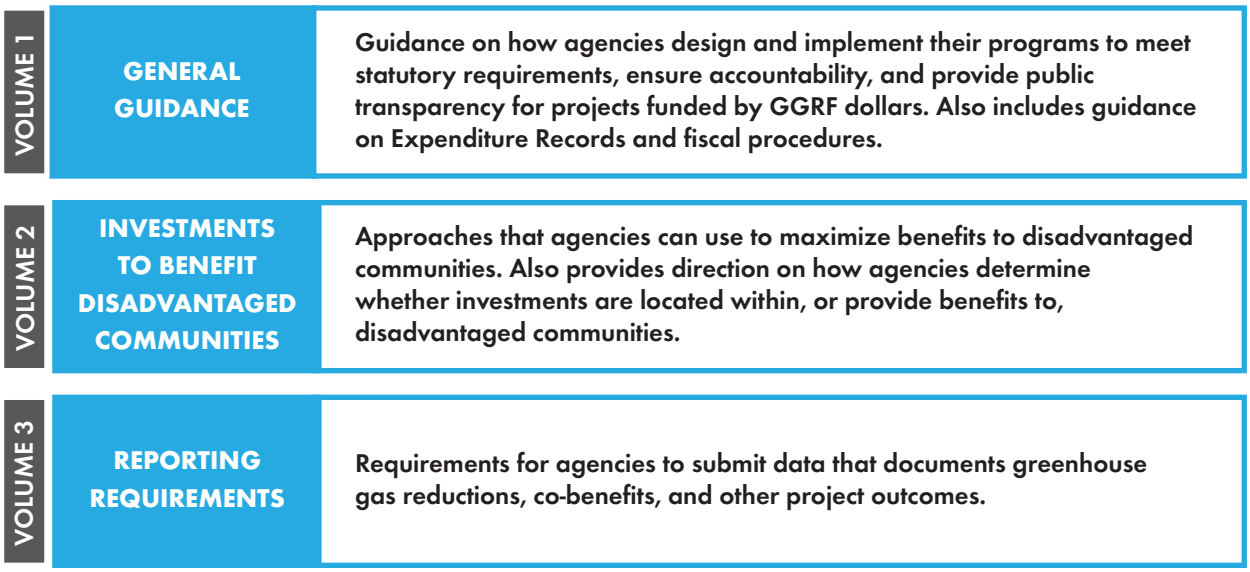
SB 1018 and SB 862 establish ARB as the GGRF administrator and require that ARB develop overarching funding guidelines for agencies receiving GGRF appropriations. In statute, recipient agencies are referred to as "administering agencies." In accordance with its statutory role, ARB is working in partnership 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.

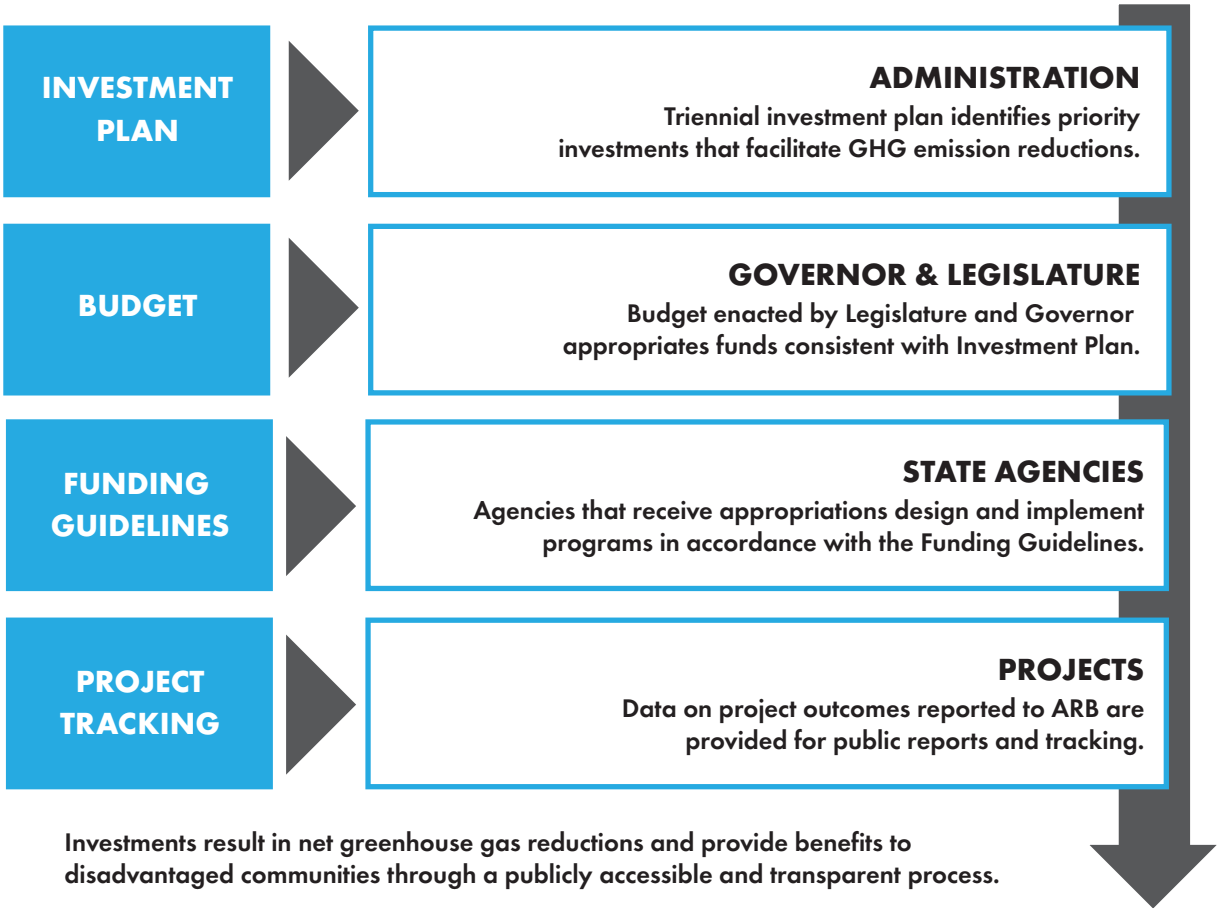
**Figure 4: Funding Guidelines for Agencies that Administer California Climate Investments by Volume and Subject**



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

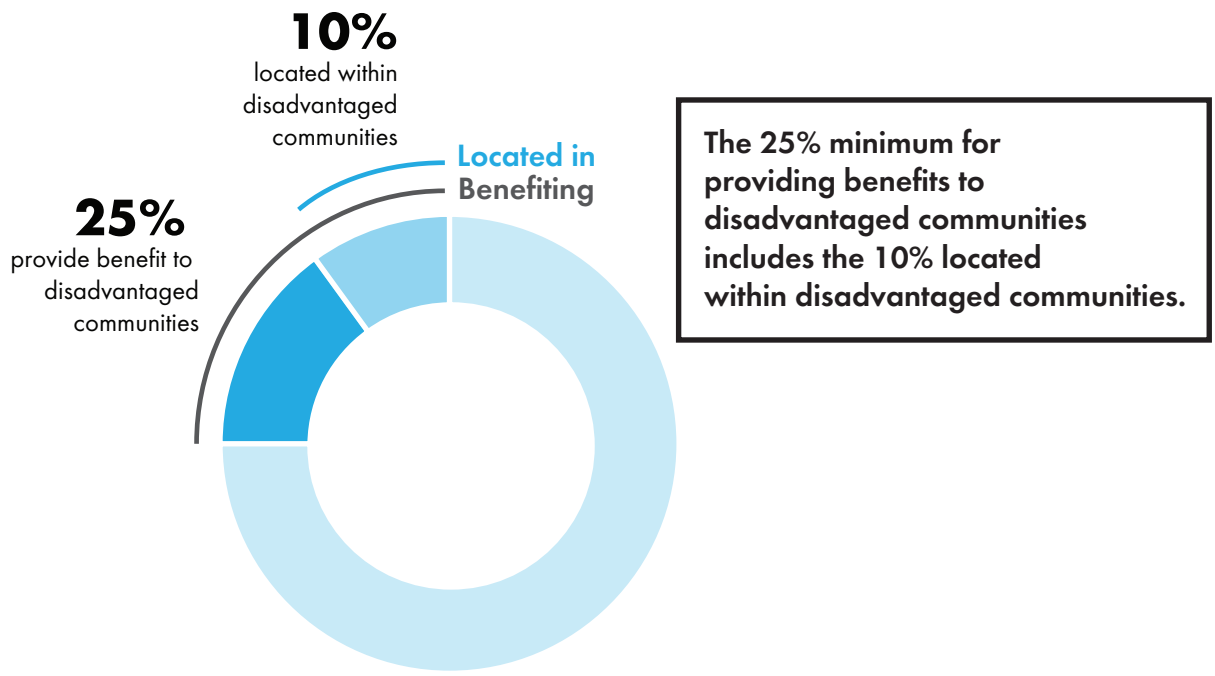
SB 535 directs the State and administering agencies to make significant investments that benefit California's most vulnerable communities. The California Environmental Protection Agency identified disadvantaged communities using the CalEnviroScreen 2.0, a tool developed by the Office of Environmental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

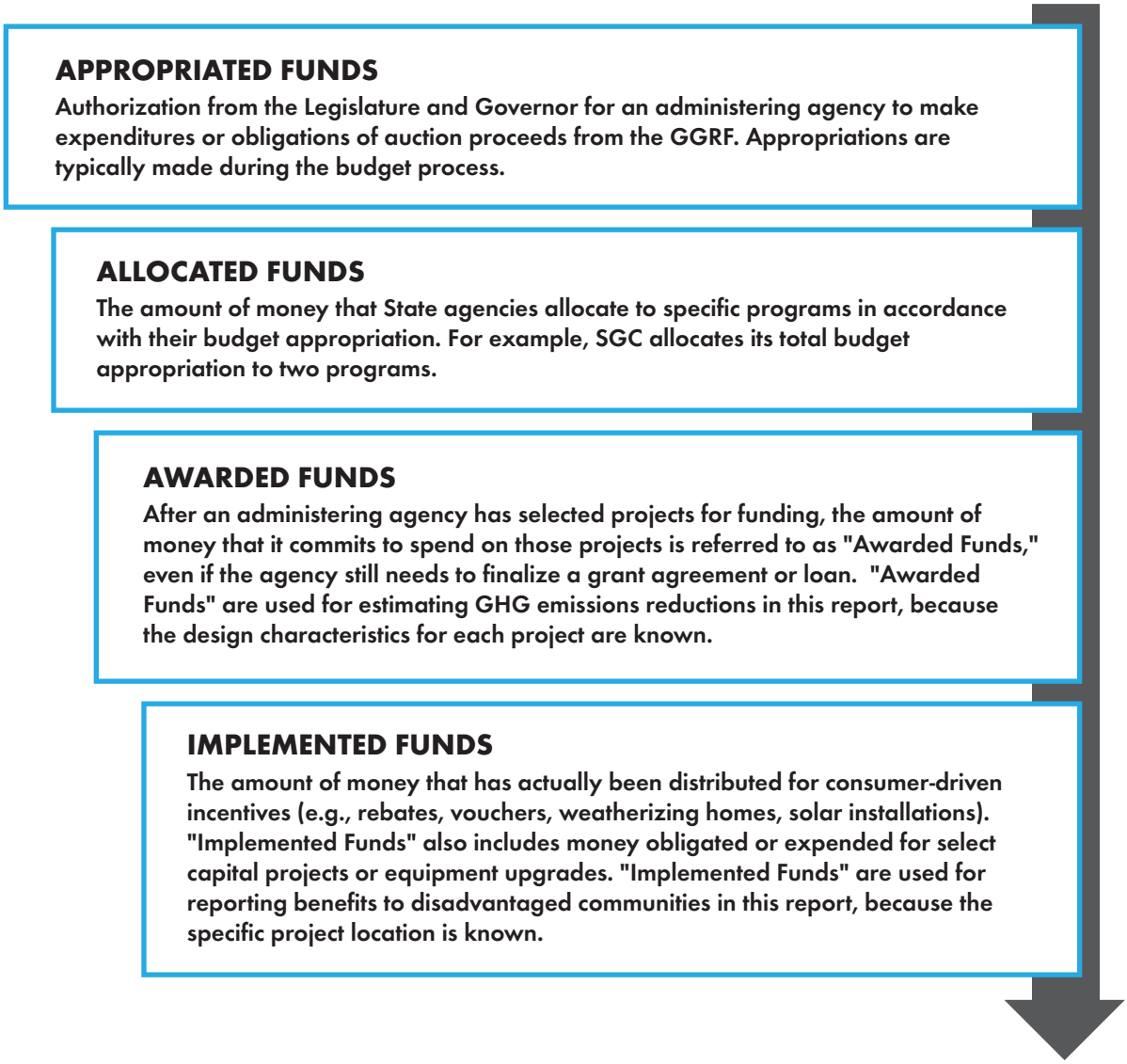
## Status of Programs

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**




## 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**

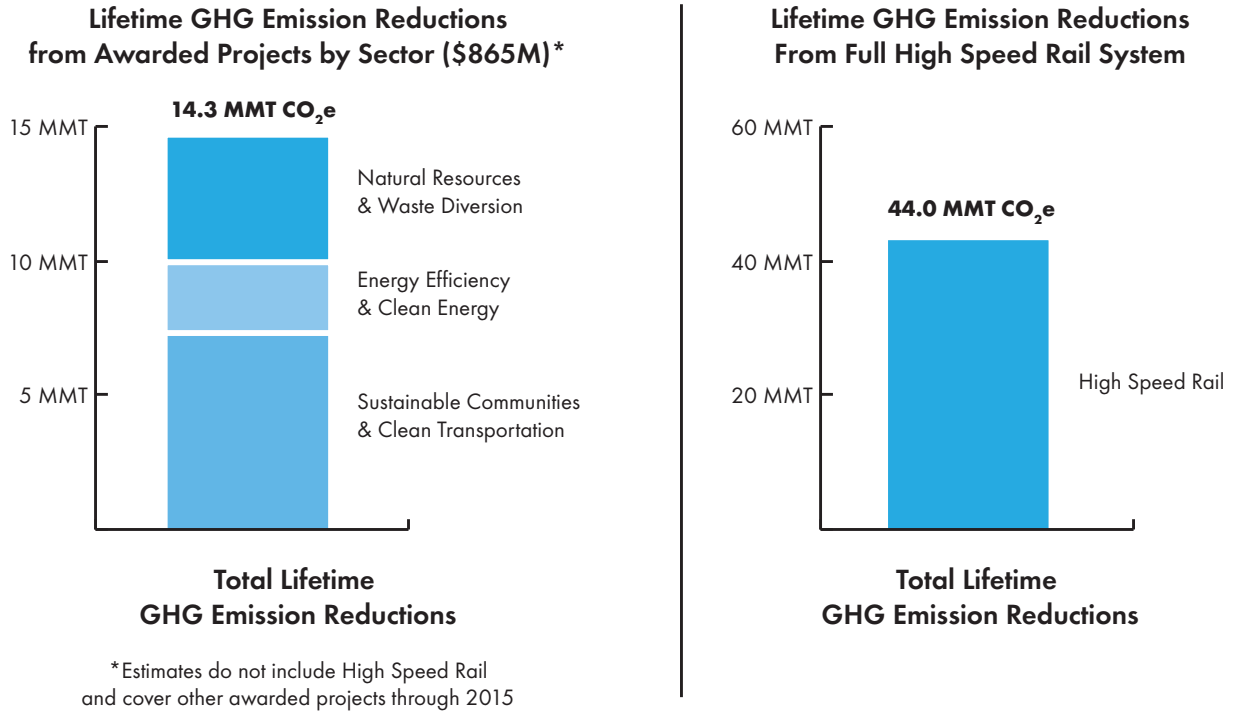
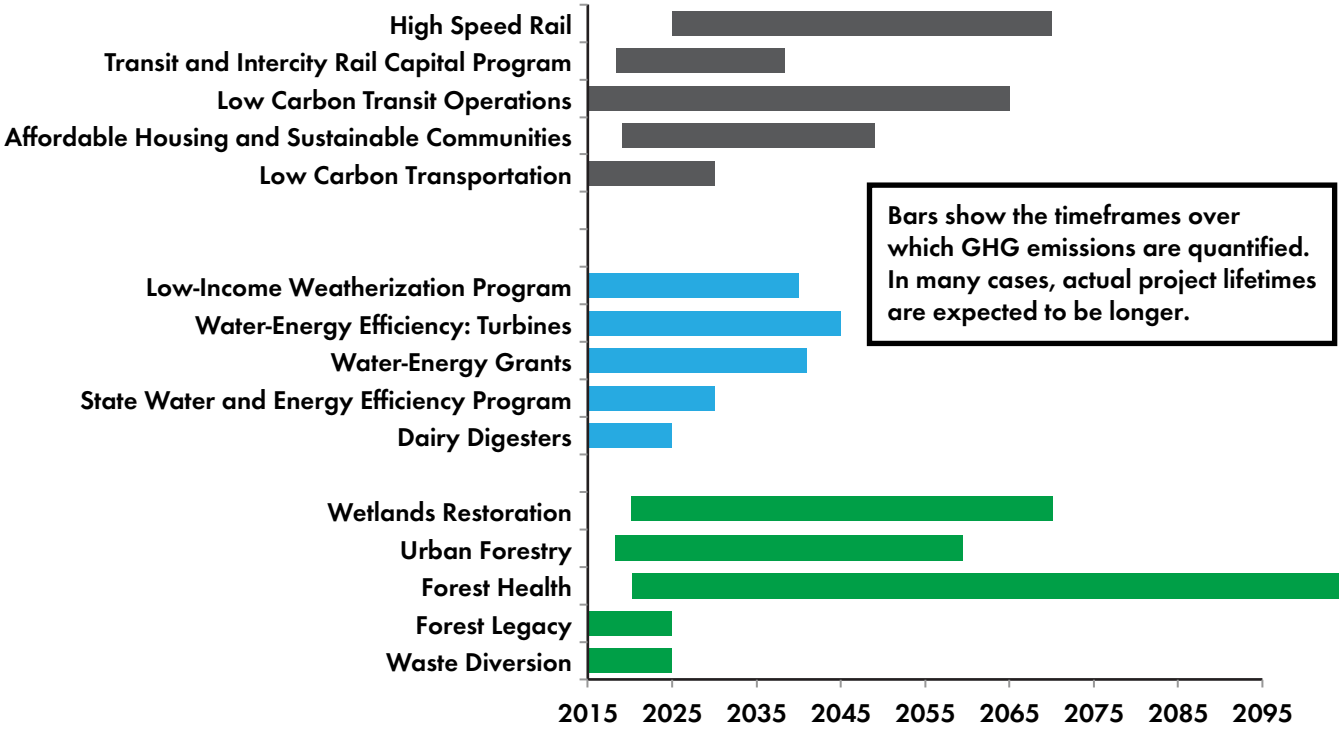



Figure 9 shows the timeframes over which the GHG emission reductions of these investments are quantified. Many of these programs are comprised of sub-programs or include several eligible project types, which are condensed for simplicity in the figure.

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.

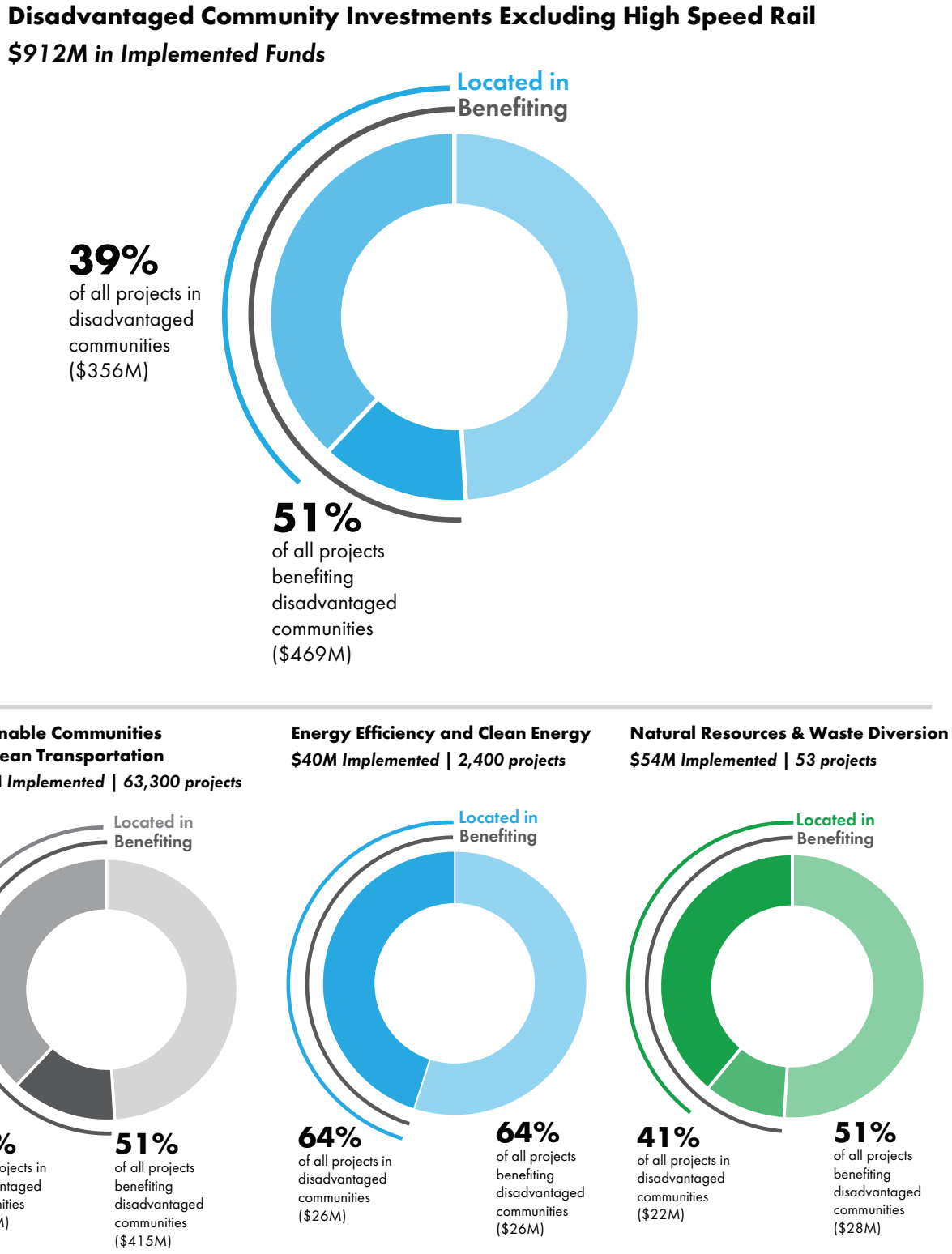
**Figure 9: Timeframes for Estimated Greenhouse Gas Reductions Resulting from California Climate Investments, 2015-2095**




## Benefits to Disadvantaged Communities

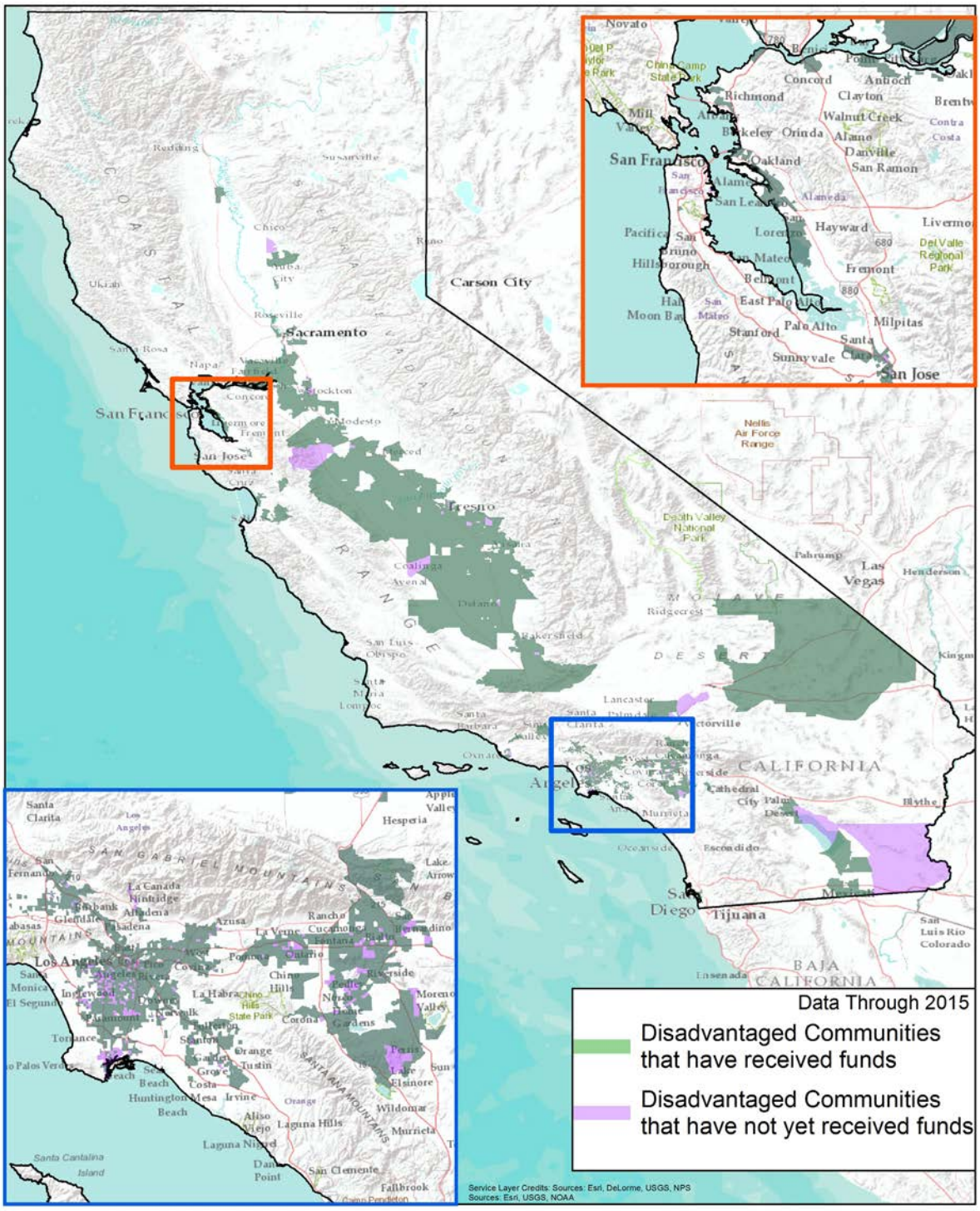
Based on agency data reported as of December 2015, 51 percent of the $912 million dollars implementing California Climate Investments are funding projects that provide benefits to disadvantaged communities; 39 percent of the $912 million are funding projects located within disadvantaged communities. 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**



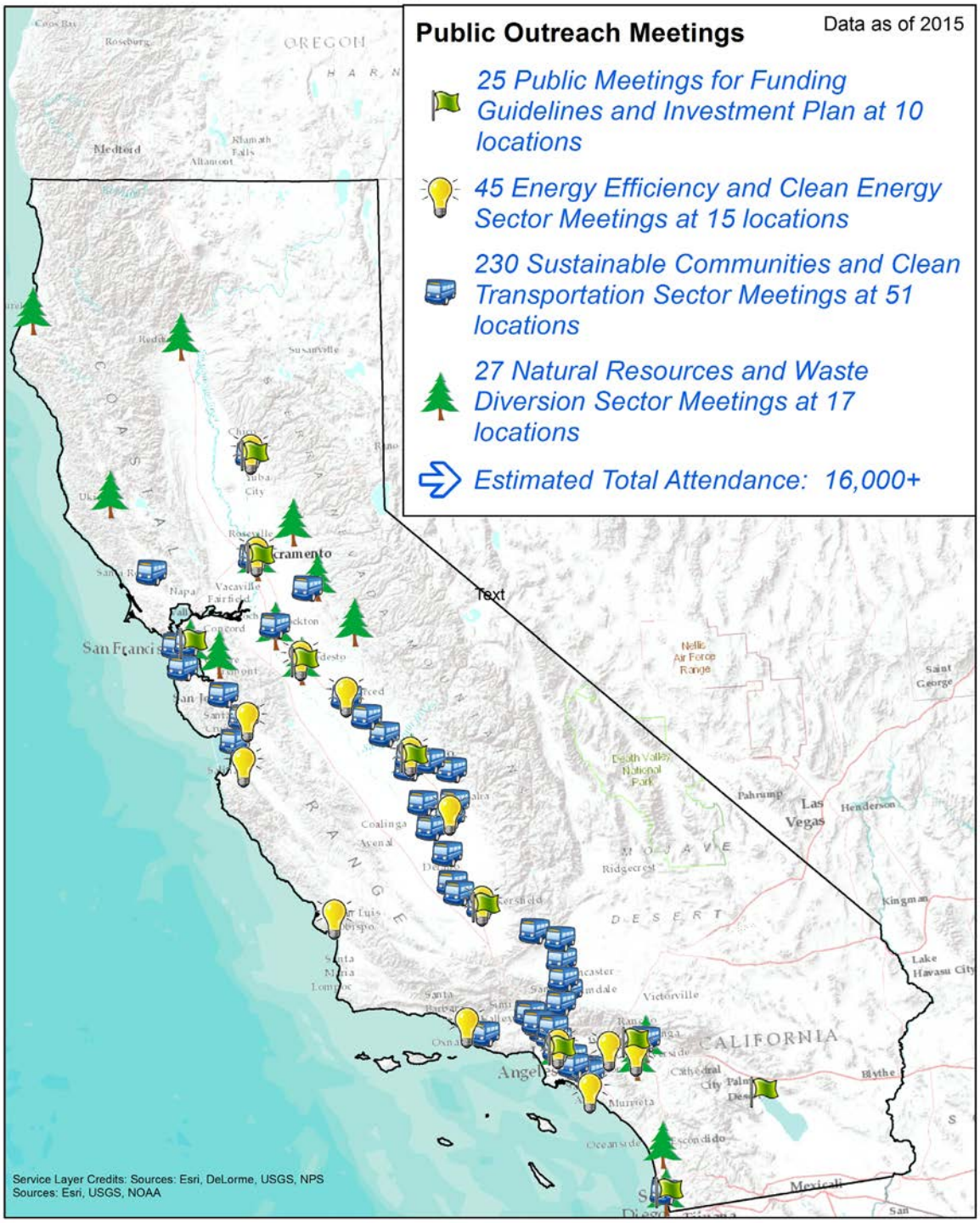
## Outreach and Public Process

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**

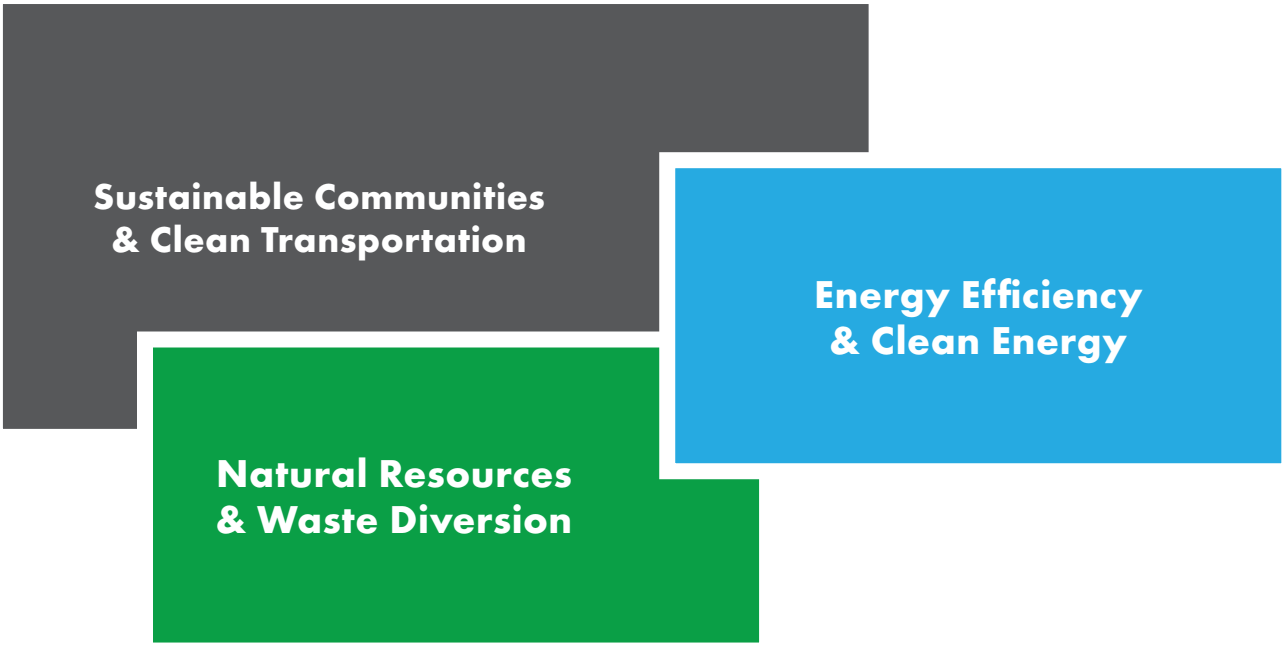


The remainder of this Report provides a summary of the status of California Climate Investments and the outcomes of those investments for each of the sectors prioritized under the Investment Plan.

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.

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

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.

**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

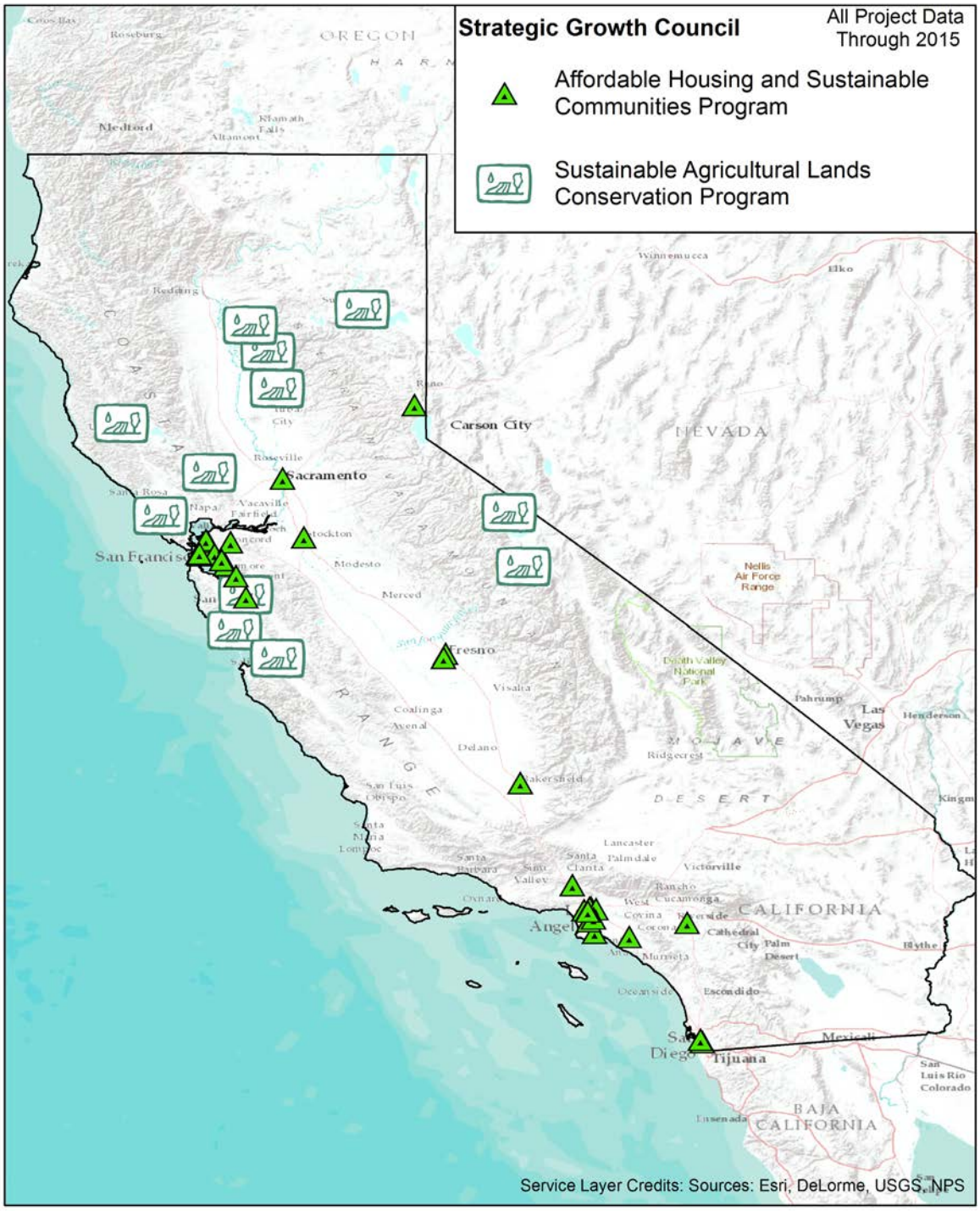
$0.4M

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%

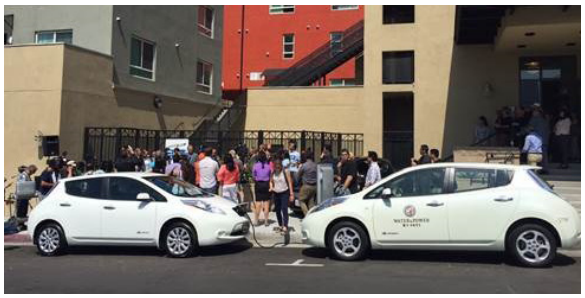
of Implemented Projects

$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 wide-spread 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**

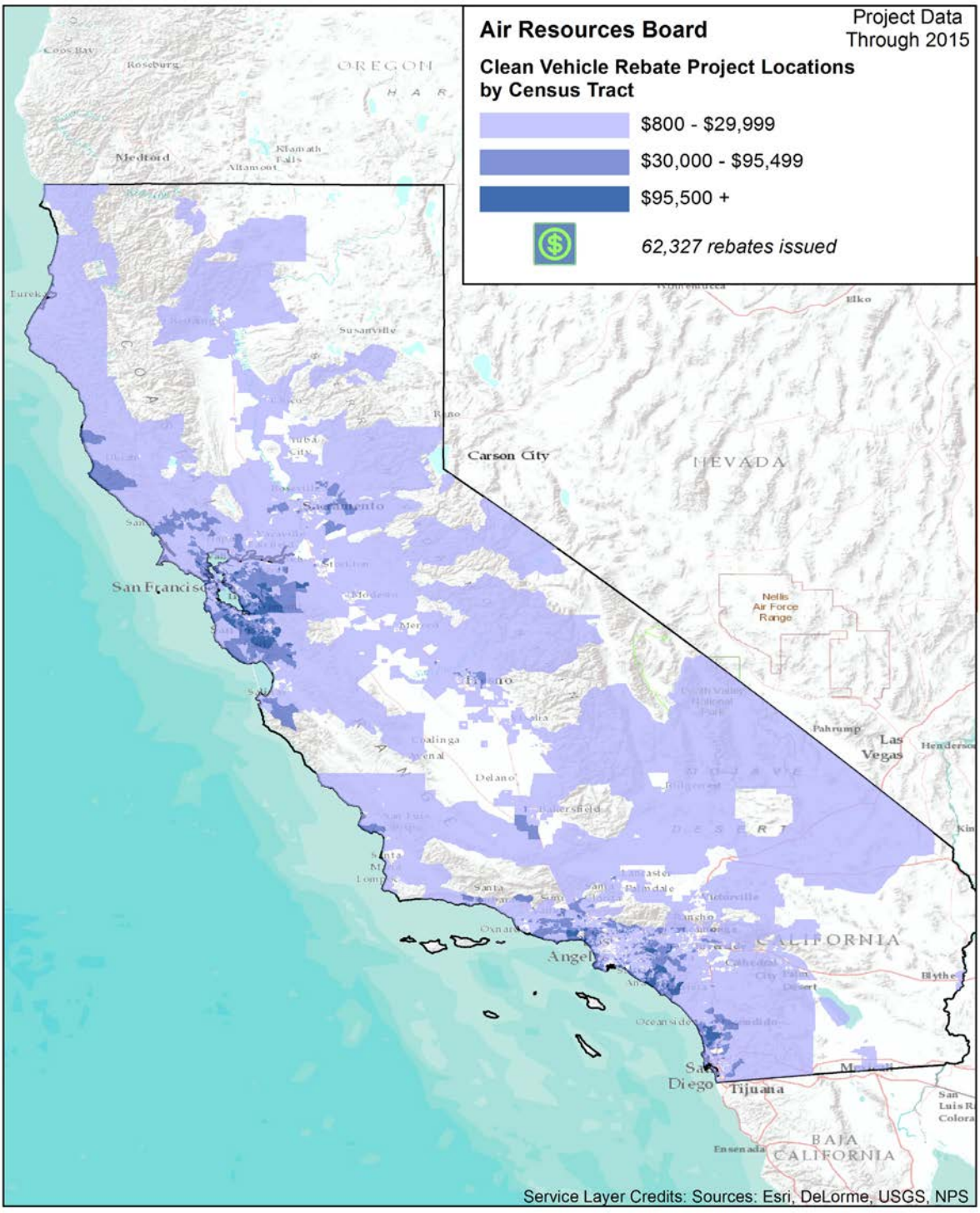


**Figure 17: Hybrid Zero-Emission Truck and Bus Voucher Incentive Project Locations**

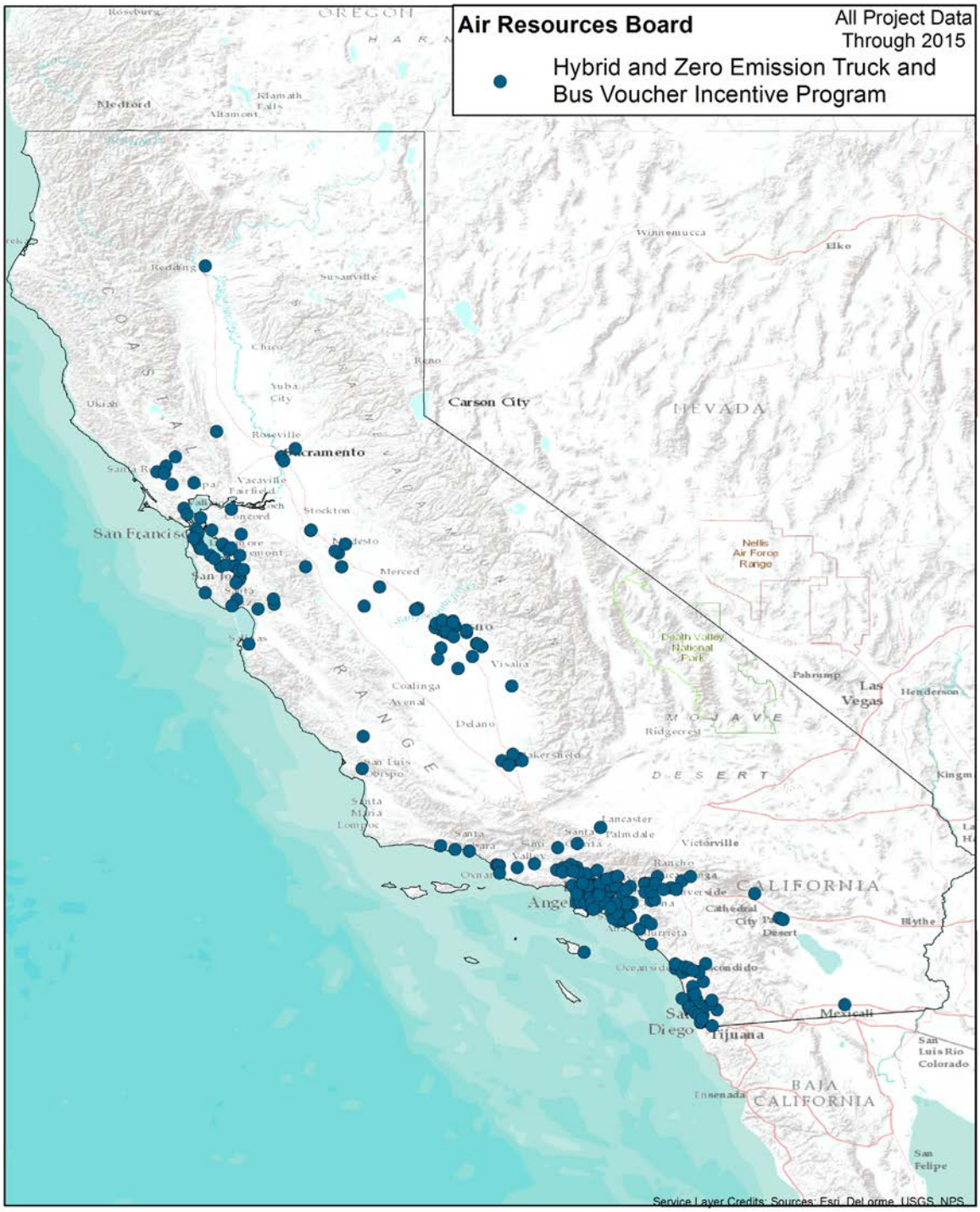


**Figure 18: Enhanced Fleet Modernization Plus-Up Project Locations**

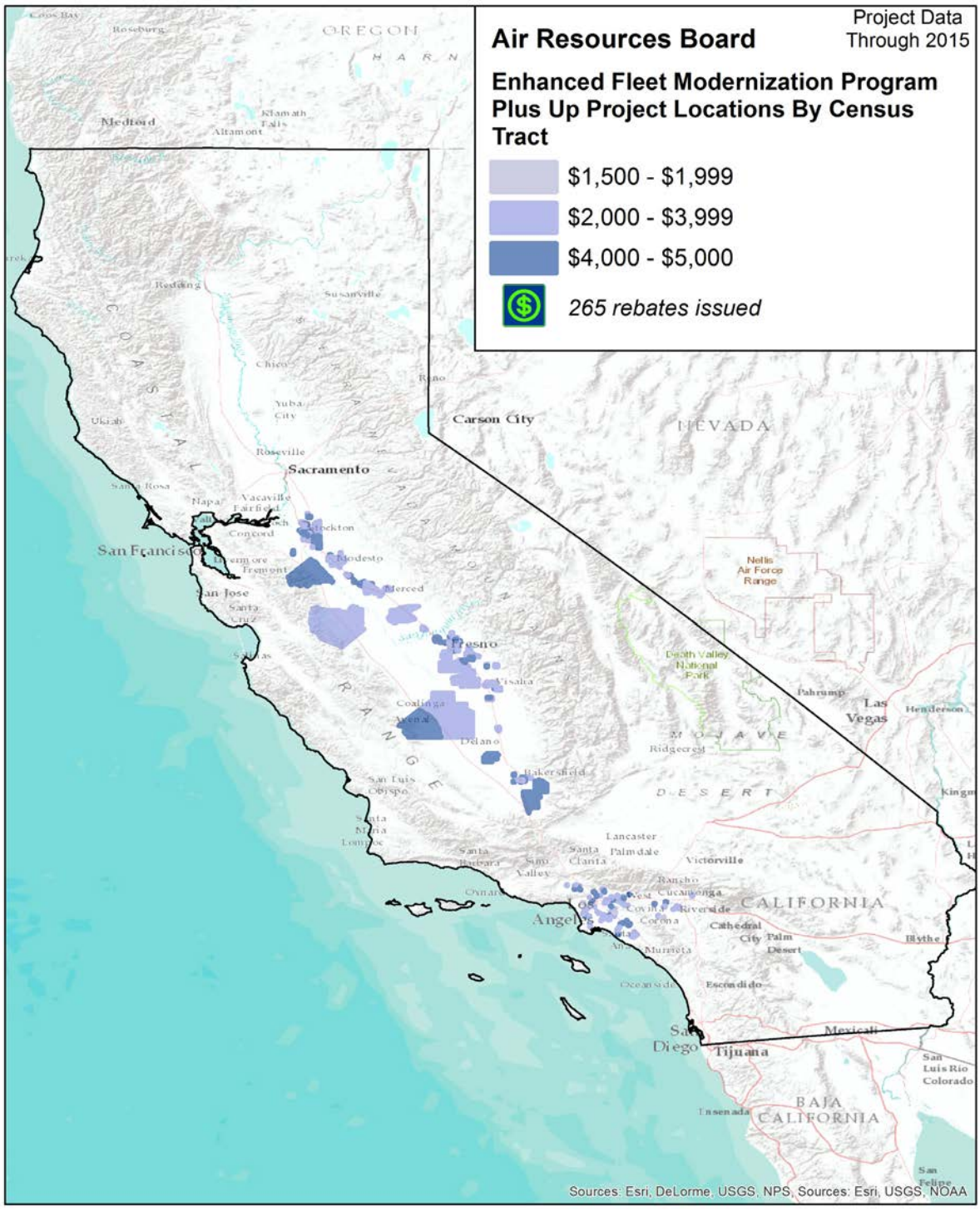
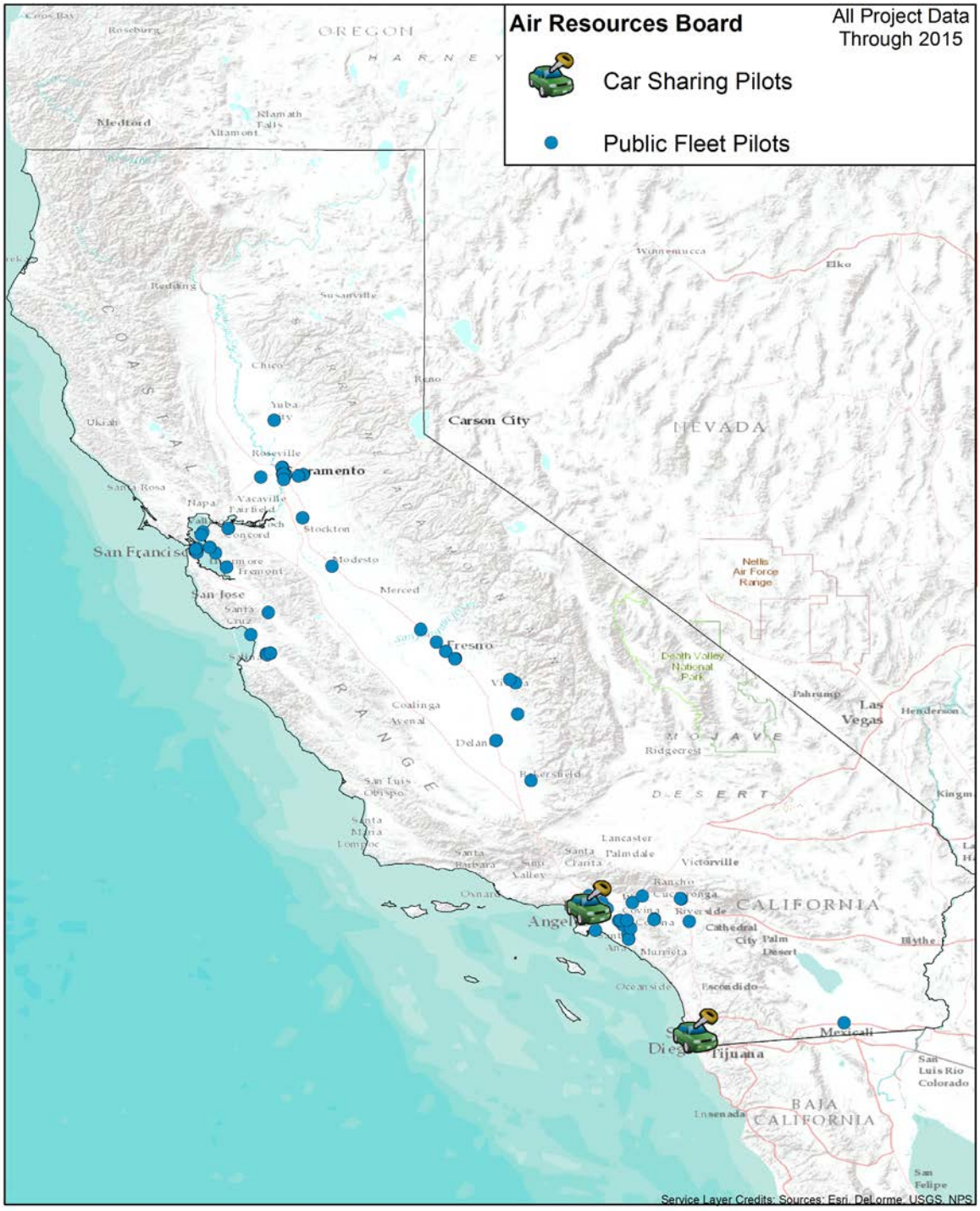


**Figure 19: Car Sharing and Public Fleet Pilot Project Locations**



# 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**

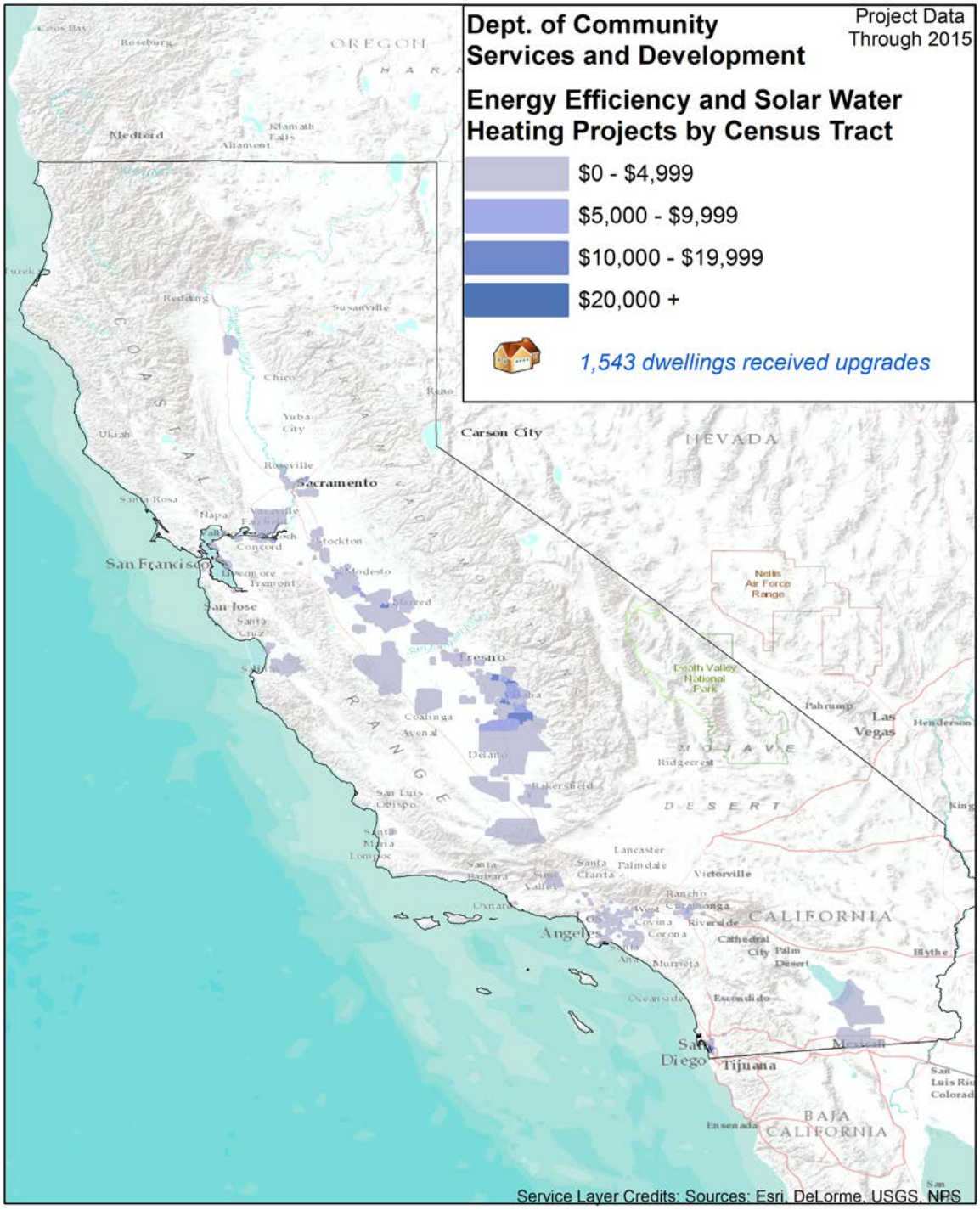
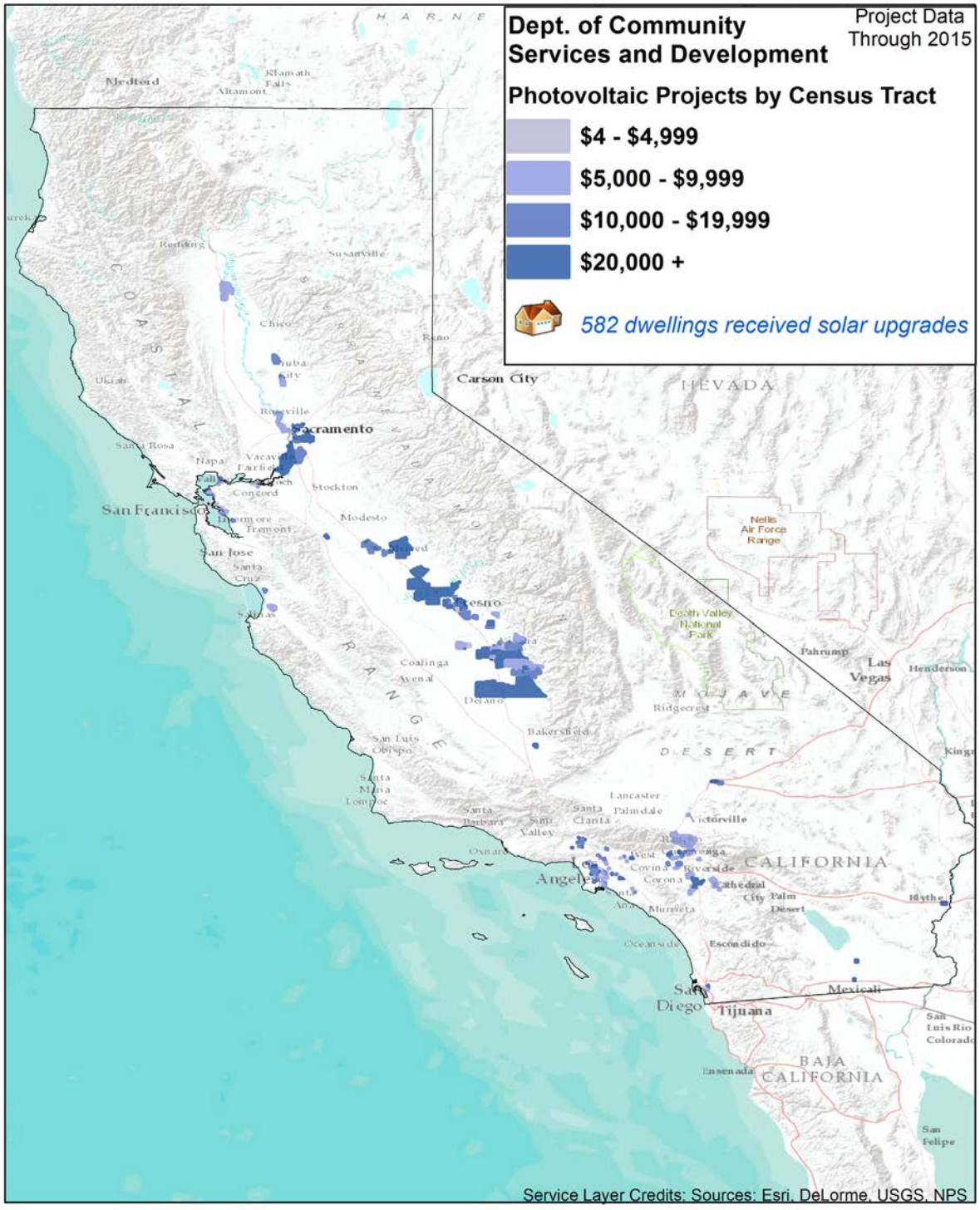


**Figure 21: Solar Photovoltaics Project Locations**



## 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.

cdfa 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

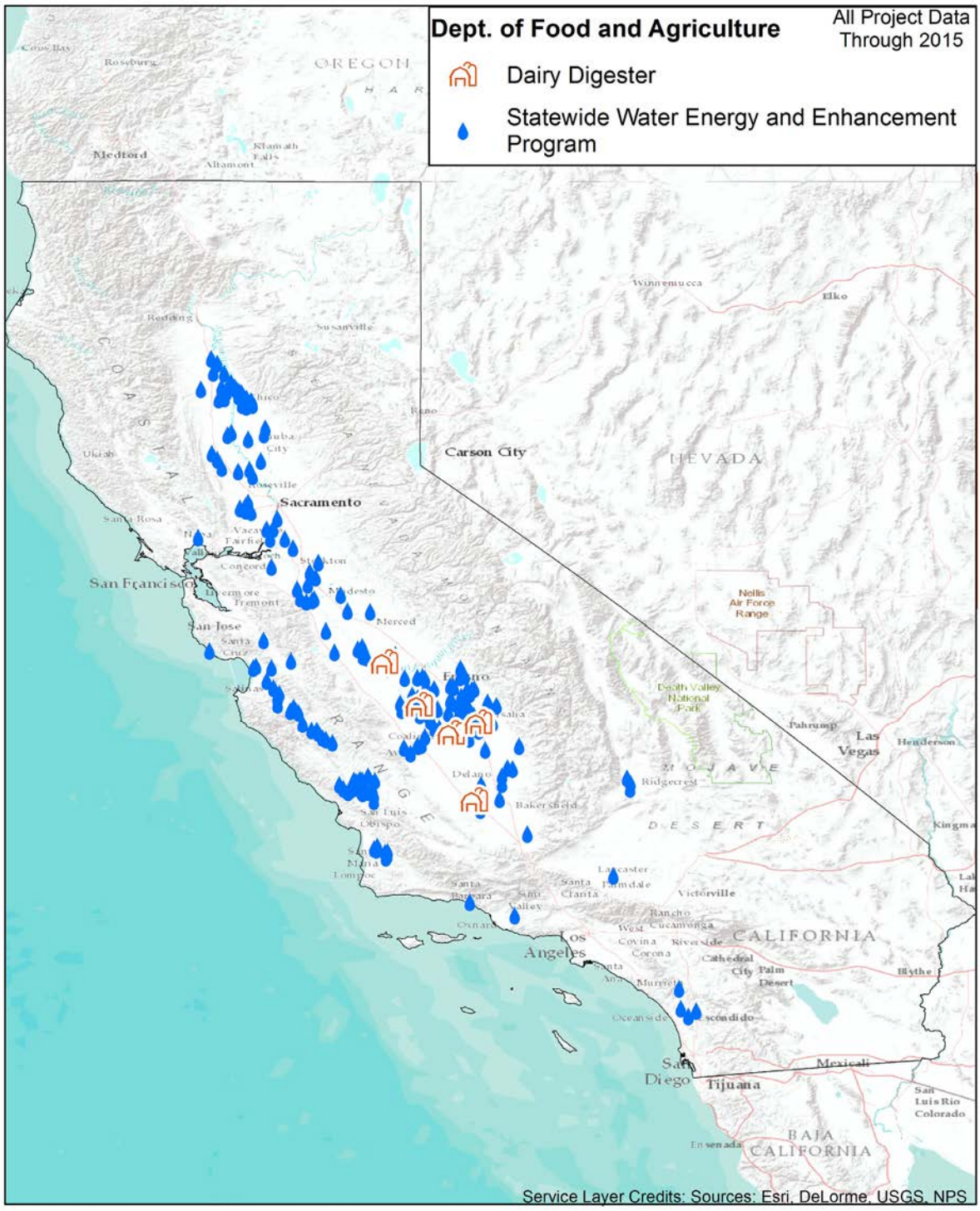
$7.3M

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.

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

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.

**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

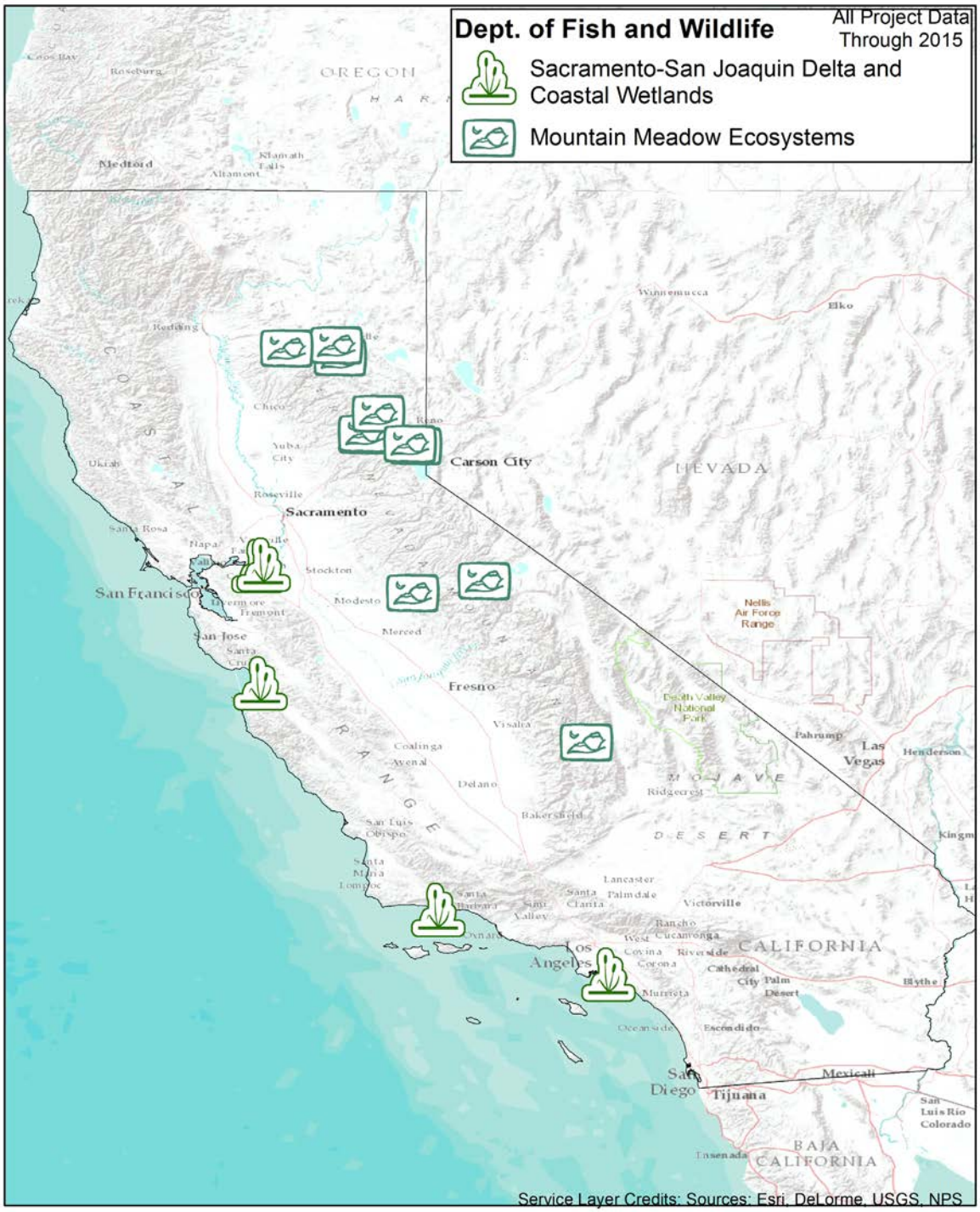
$0M

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)

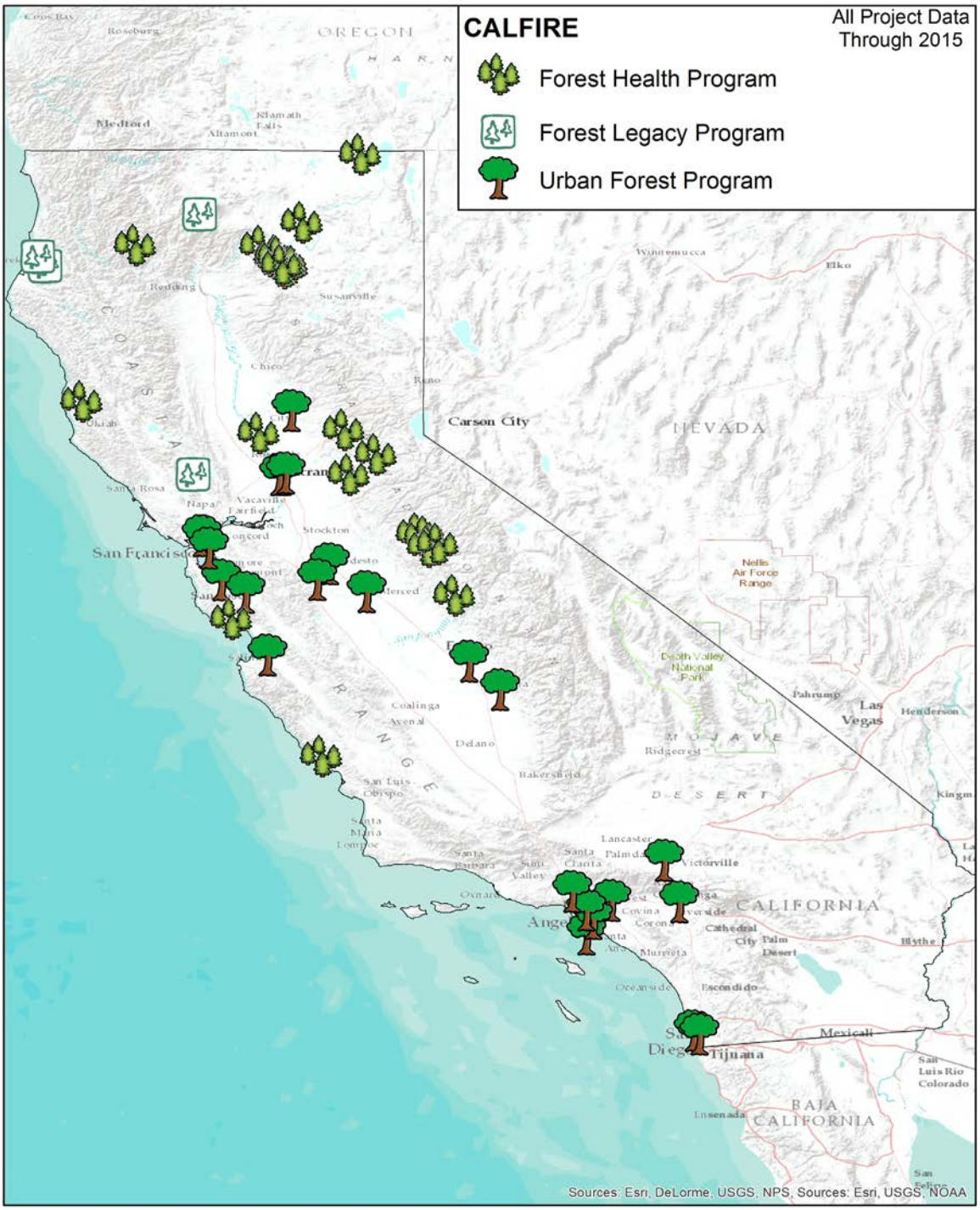
Planting of trees in disadvantaged communities in Modesto

$ 327,000 (GGRF)

Estimated Reduction of 23,000 $MTCO_2e$

5,000 Trees

**Figure 25: Sustainable Forest Project Locations**



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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