



District Economic Facts from Climate Policies

California Assembly Districts
August 2016

Districts 41 - 60



**Good for the Economy.
Good for the Environment.**

Understanding the Numbers:



The top-line investment number comes from public and private funding sources. Many public programs require a private sector cost-share. This number is broken into general categories at the top of Page 2. Projects which span multiple districts are assumed to be divided evenly between them. [Kevala Analytics](#) provided this assessment, with funding support from E2 and NextGen.



Job metrics are the results of the [2016 California Advanced Energy Employment Survey](#) conducted by Advanced Energy Economy (AEE).



Cap and Trade funding to each district is gathered from the [Air Resource Board \(ARB\) Greenhouse Gas Reduction Program and California Climate Investment](#). The final value represented in the document omits duplicate entries and does not account for projects that impact multiple districts or high-speed rail. This creates a conservative disclosure of total investment that does not reflect 100% of funding allocation by ARB. There is an additional \$1.6 Billion available in this fund, awaiting allocation to districts.



The percent of funding which benefits disadvantaged communities is also gathered from the [Air Resource Board \(ARB\) Greenhouse Gas Reduction Program and California Climate Investment](#).

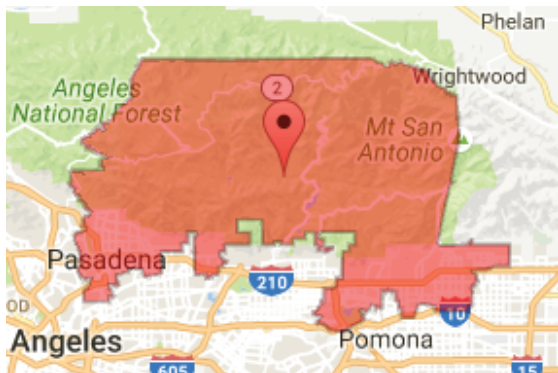


The ARB dataset reports greenhouse gas emission reductions from each project in metric tons of CO2 equivalent. E2 applied an emission equivalent of “number of cars off the road for one year” using the EPA’s [Greenhouse Gas Equivalency Calculator](#).

Metrics on the second page such as Renewable Generation, Transportation, Energy Efficiency, and Other Climate Investment are gathered from datasets compiled by [Kevala Analytics](#). These dollar amounts total the top-line investment number on Page 1.

In cases where some districts did not receive investment within a category, the field was omitted from the fact sheet.

The table on the bottom of Page 2 provides a more detailed report of funding allocation from the Greenhouse Gas Reduction Fund data.



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Assembly District 41

Chris Holden

The economic benefits of California's climate policies in-district to date:



\$271 Million

Documented in-district investment in renewable energy, energy efficiency, transportation, and other climate projects



11,620 Jobs

In the local advanced energy economy



\$2.4 Million

Cap and Trade funds allocated to the district



60% of cap and trade funds

benefit disadvantaged communities



11,378 cars off the road

emission reduction equivalent

As of August 2016

Breakdown of benefits from all climate policies to date:

Renewable Generation



\$194 Million Invested

5,189 Projects
56 Megawatts

Transportation



\$26 Million in Incentives

2,899 EV Rebates
44 EV Stations

Energy Efficiency



\$41 Million Invested

2,325 Projects

Other Climate Investment



\$10.1 Million

Returned to Ratepayers

In-district Cap and Trade fund distribution:

District 41, Chris Holden					
Project Type	Total Dollars Implemented	GHG Reductions Metric Tons CO2e	Number of Projects	# of Projects Benefitting Disadvantaged Communities	Dollars Benefitting Disadvantaged Communities
Clean Vehicle Rebate Project	\$ 2,347,381	53,691	1,103	652	\$ 1,377,447
Enhanced Fleet Modernization Program Plus-Up	\$ 22,000	62	5	5	\$ 22,000
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$ 24,057	57	1	1	\$ 24,057
Increased Incentives for Public Fleets Pilot Project in Disadvantaged Communities	\$ 10,000	10	1	1	\$ 10,000
Single-Family Solar Photovoltaics (PV)	\$ 15,746	-	1	1	\$ 15,746
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$ 87	-	1	1	\$ 87
Grand Total	\$ 2,419,271	53,820	1,112	661	\$ 1,449,337

Sources:

Job data: AEE Advanced Energy jobs in California, 2016 | CO2 Equivalents: <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator> | Total Investments: Kevala Analytics |

GGRF data: <http://www.arb.ca.gov/cc/capandtrade/auctionproceeds/auctionproceeds.htm>



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Assembly District 42

Chad Mayes

The economic benefits of California's climate policies in-district to date:



\$1.4 Billion

Documented in-district investment in renewable energy,
energy efficiency, transportation, and other climate projects



6,844 Jobs

in the local advanced energy economy



\$596,000

Cap and Trade funds allocated to the district



29%

 of cap and trade funds
benefit disadvantaged communities

2,803

 cars off the road
emission reduction equivalent

As of August 2016

Breakdown of benefits from all climate policies to date:

Renewable Generation



\$1.31 Billion Invested

11,884 Projects
758 Megawatts

Transportation



\$1.7 Million in Incentives

681 EV Rebates
22 Public EV Stations

Energy Efficiency



\$83.5 Million Invested

2,713 Projects

Other Climate Investment



\$15.8 Million

Returned to Ratepayers

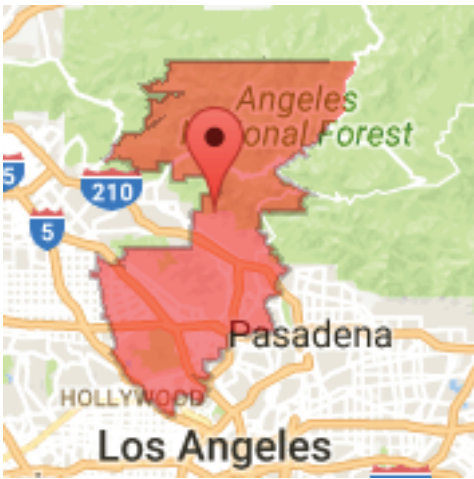
In-district Cap and Trade fund distribution:

District 42, Chad Mayes					
Project Type	Total Dollars Implemented	GHG Reductions Metric Tons CO2e	Number of Projects	# of Projects Benefitting Disadvantaged Communities	Dollars Benefitting Disadvantaged Communities
Clean Vehicle Rebate Project	\$ 581,177	13,259	272	72	\$ 158,549
Low Carbon Transit Operations Program	\$ 655	-	1	1	\$ 655
Single-Family Solar Photovoltaics (PV)	\$ 14,193	-	2	2	\$ 14,193
Grand Total	\$ 596,025	13,259	275	75	\$ 173,397

Sources:

Job data: AEE Advanced Energy jobs in California, 2016 | CO2 Equivalents: <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator> | Total Investments: Kevala Analytics |

GGRF data: <http://www.arb.ca.gov/cc/capandtrade/auctionproceeds/auctionproceeds.htm>



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Assembly District 43

Mike Gatto

The economic benefits of California's climate policies in-district to date:



\$72 Million

Documented in-district investment in renewable energy,
energy efficiency, transportation, and other climate projects



6,085 Jobs

In the local advanced energy economy



\$2.5 Million

Cap and Trade funds allocated to the district



87% of cap and trade funds

benefit disadvantaged communities



11,293 cars off the road

emission reduction equivalent

As of August 2016

Breakdown of benefits from all climate policies to date:

Renewable Generation



\$48.6 Million Invested

841 Projects

13 Megawatts

Transportation



\$6.4 Million in Incentives

2,856 EV Rebates

122 Public EV Stations

Energy Efficiency



\$16 Million Invested

654 Projects

Other Climate Investment



\$1.2 Million

Returned to Ratepayers

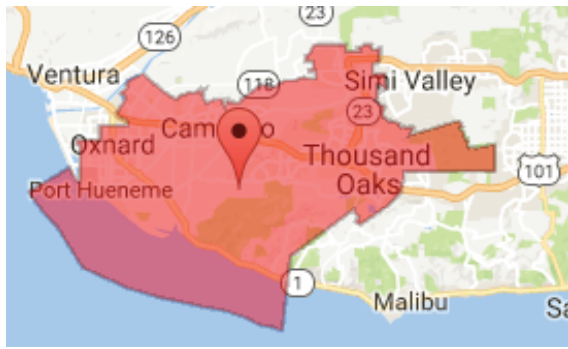
In-district Cap and Trade fund distribution:

District 43, Mike Gatto						
Project Type	Total Dollars Implemented	GHG Reductions		# of Projects Benefitting Disadvantaged Communities	Dollars Benefitting Disadvantaged Communities	
		Metric Tons CO2e	Number of Projects			
Clean Vehicle Rebate Project	\$ 2,326,057	53,084	1,089	940	\$	2,015,933
Enhanced Fleet Modernization Program Plus-Up	\$ 17,500	48	4	4	\$	17,500
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$ 125,094	277	4	4	\$	125,094
Increased Incentives for Public Fleets Pilot Project in Single-Family/Small Multi-Family	\$ 5,250	9	1	1	\$	5,250
Energy Efficiency and Solar Water Heating	\$ 334	-	1	1	\$	334
Grand Total	\$ 2,474,235	53,418	1,099	950	\$	2,164,111

Sources:

Job data: AEE Advanced Energy jobs in California, 2016 | CO2 Equivalents: <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator> | Total Investments: Kevala Analytics |

GGRF data: <http://www.arb.ca.gov/cc/capandtrade/auctionproceeds/auctionproceeds.htm>



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Assembly District 44

Jacqui Irwin

The economic benefits of California's climate policies in-district to date:



\$315 Million

Documented in-district investment in renewable energy,
energy efficiency, transportation, and other climate projects



3,345 Jobs

In the local advanced energy economy



\$1.8 Million

Cap and Trade funds allocated to the district



32% of cap and trade funds

benefit disadvantaged communities



6,724 cars off the road

emission reduction equivalent

As of August 2016

Breakdown of benefits from all climate policies to date:

Renewable Generation



\$255 Million Invested

5,911 Projects

62 Megawatts

Transportation



\$2.7 Million in Incentives

1,822 EV Rebates

57 Public EV Stations

Energy Efficiency



\$45 Million Invested

2,056 Projects

Other Climate Investment



\$11.9 Million

Returned to Ratepayers

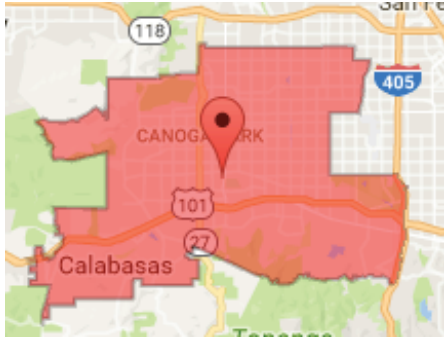
In-district Cap and Trade fund distribution:

District 44, Jacqui Irwin					
Project Type	Total Dollars Implemented	GHG Reductions Metric Tons CO ₂ e	Number of Projects	# of Projects Benefitting Disadvantaged Communities	Dollars Benefitting Disadvantaged Communities
Clean Vehicle Rebate Project	\$ 1,381,190	31,586	648	121	\$ 257,029
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$ 111,428	220	3	1	\$ 24,178
Low Carbon Transit Operations Program	\$ 295,041	-	1	1	\$ 295,041
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$ 1,407	-	1	1	\$ 1,407
Grand Total	\$ 1,789,066	31,806	653	124	\$ 577,654

Sources:

Job data: AEE Advanced Energy jobs in California, 2016 | CO₂ Equivalents: <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator> | Total Investments: Kevala Analytics |

GGRF data: <http://www.arb.ca.gov/cc/capandtrade/auctionproceeds/auctionproceeds.htm>



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Assembly District 45

Matthew Dababneh

The economic benefits of California's climate policies in-district to date:



\$61 Million

Documented in-district investment in renewable energy,
energy efficiency, transportation, and other climate projects



9,046 Jobs

In the local advanced energy economy



\$2.3 Million

Cap and Trade funds allocated to the district



52% of cap and trade funds benefit disadvantaged communities



10,597 cars off the road emission reduction equivalent

As of August 2016

Breakdown of benefits from all climate policies to date:

Renewable Generation



\$45 Million Invested

4,252 Projects

44 Megawatts

Transportation



\$5.2 Million in Incentives

2,927 EV Rebates

57 Public EV Stations

Energy Efficiency



\$9.9 Million Invested

463 Projects

Other Climate Investment



\$1 Million

Returned to Ratepayers

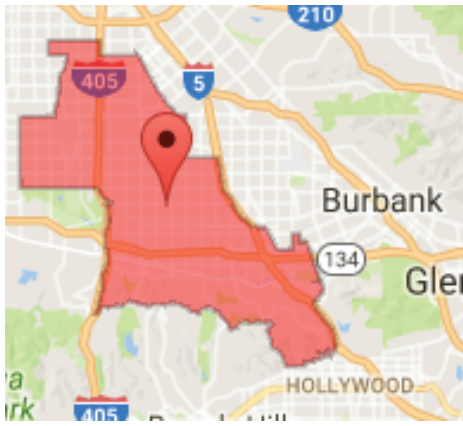
In-district Cap and Trade fund distribution:

District 45, Matthew Dabadneh					
Project Type	Total Dollars Implemented	GHG Reductions Metric Tons CO2e	Number of Projects	# of Projects Benefitting Disadvantaged Communities	Dollars Benefitting Disadvantaged Communities
Clean Vehicle Rebate Project	\$ 2,172,274	49,932	1,026	521	\$ 1,073,569
Enhanced Fleet Modernization Program Plus-Up	\$ 7,500	19	2	2	\$ 7,500
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$ 72,534	171	3	3	\$ 72,534
Single-Family Solar Photovoltaics (PV)	\$ 26,125	-	1	1	\$ 26,125
Grand Total	\$ 2,278,433	50,122	1,032	527	\$ 1,179,728

Sources:

Job data: AEE Advanced Energy jobs in California, 2016 | CO2 Equivalents: <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator> | Total Investments: Kevala Analytics |

GGRF data: <http://www.arb.ca.gov/cc/capandtrade/auctionproceeds/auctionproceeds.htm>



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Assembly District 46

Adrin Nazarian

The economic benefits of California's climate policies in-district to date:



\$51 Million

Documented in-district investment in renewable energy,
energy efficiency, transportation, and other climate projects



2,945 Jobs

In the local advanced energy economy



\$2.4 Million

Cap and Trade funds allocated to the district



53% of cap and trade funds benefit disadvantaged communities



10,290 cars off the road emission reduction equivalent

As of August 2016

Breakdown of benefits from all climate policies to date:

Transportation



\$405,000 in Incentives

2,651 EV Rebates
57 Public EV Stations

Renewable Generation



\$43 Million Invested

2,846 Projects
31 Megawatts

Energy Efficiency



\$7.9 Million Invested

343 Installations

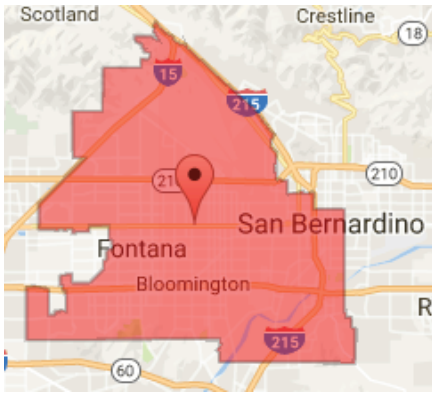
In-district Cap and Trade fund distribution:

Project Type	Total Dollars Implemented	GHG Reductions Metric Tons CO ₂ e	Number of Projects	# of Projects Benefitting Disadvantaged Communities	Dollars Benefitting Disadvantaged Communities
Clean Vehicle Rebate Project	\$ 2,079,716	48,138	990	469	\$ 963,235
Enhanced Fleet Modernization Program Plus-Up	\$ 27,500	76	6	6	\$ 27,500
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$ 193,303	456	8	8	\$ 193,303
Single-Family Solar Photovoltaics (PV)	\$ 58,496	-	3	3	\$ 58,496
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$ 56	-	1	1	\$ 56
Grand Total	\$ 2,359,071	48,670	1,008	487	\$ 1,242,590

Sources:

Job data: AEE Advanced Energy jobs in California, 2016 | CO₂ Equivalents: <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator> | Total Investments: Kevala Analytics |

GGRF data: <http://www.arb.ca.gov/cc/capandtrade/auctionproceeds/auctionproceeds.htm>



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Assembly District 47

Cheryl Brown

The economic benefits of California's climate policies in-district to date:



\$352 Million

Documented in-district investment in renewable energy,
energy efficiency, transportation, and other climate projects



2,558 Jobs

In the local advanced energy economy



\$1.2 Million

Cap and Trade funds allocated to the district



100% of cap and trade funds

benefit disadvantaged communities



1,721 cars off the road

emission reduction equivalent

As of August 2016

Breakdown of benefits from all climate policies to date:

Renewable Generation



\$264 Million Invested

4,612 Installations

66 Megawatts

Transportation



\$11 Million in Incentives

389 EV Rebates

17 Public EV Stations

Energy Efficiency



\$68 Million Invested

1,866 Installations

Other Climate Investment



\$9 Million

Returned to Ratepayers

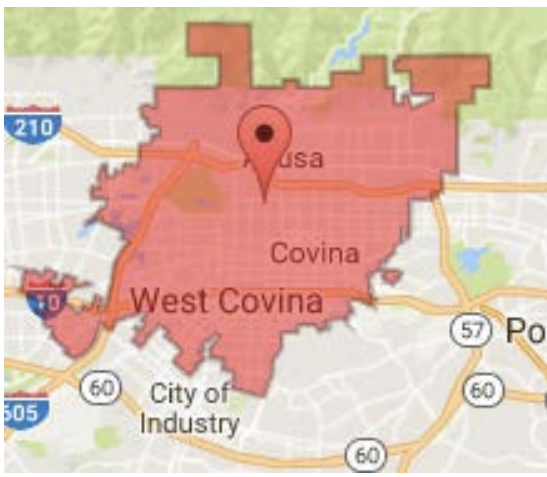
In-district Cap and Trade fund distribution:

District 47, Cheryl Brown					
Project Type	Total Dollars Implemented	GHG Reductions Metric Tons CO2e	Number of Projects	# of Projects Benefitting Disadvantaged Communities	Dollars Benefitting Disadvantaged Communities
Clean Vehicle Rebate Project	\$ 333,270	8,051	167	167	\$ 333,264
Enhanced Fleet Modernization Program Plus-Up	\$ 5,000	12	1	1	\$ 5,000
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$ 24,178	57	1	1	\$ 24,178
Increased Incentives for Public Fleets Pilot Project in Disadvantaged Communities	\$ 20,000	20	2	2	\$ 20,000
Low Carbon Transit Operations Program	\$ 679,599	-	1	1	\$ 679,599
Single-Family Solar Photovoltaics (PV)	\$ 137,153	-	16	16	\$ 137,153
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$ 40,451	-	24	24	\$ 40,451
Grand Total	\$ 1,239,650	8,140	212	212	\$ 1,239,645

Sources:

Job data: AEE Advanced Energy jobs in California, 2016 | CO2 Equivalents: <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator> | Total Investments: Kevala Analytics |

GGRF data: <http://www.arb.ca.gov/cc/capandtrade/auctionproceeds/auctionproceeds.htm>



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Assembly District 48

Roger Hernández

The economic benefits of California's climate policies in-district to date:



\$176.2 Million

Documented in-district investment in renewable energy,
energy efficiency, transportation, and other climate projects



5,114 Jobs

In the local advanced energy economy



\$1.4 Million

Cap and Trade funds allocated to the district



91% of cap and trade funds

benefit disadvantaged communities



4,358 cars off the road

emission reduction equivalent

As of August 2016

Breakdown of climate projects to date:

Renewable Generation



\$115 Million Invested

2,737 Projects

33.14 Megawatts

Transportation



\$1,000,000 Invested

904 EV Rebates

20 Public EV

Energy Efficiency



\$50 Million Invested

2,230 Projects

Other Climate Investment



\$10.5 Million Returned
to Ratepayers

In-district Cap and Trade fund distribution:

48, Roger Hernández					
Project Type	Total Dollars Implemented	GHG Reductions Metric Tons CO2e	Number of Projects	# of Projects Benefitting Disadvantaged Communities	Dollars Benefitting Disadvantaged Communities
Clean Vehicle Rebate Project	\$838,655.00	19518	402	334	\$701,838.53
Enhanced Fleet Modernization Program Plus-Up	\$47,500.00	125	11	11	\$47,500.00
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$347,954.00	969	17	17	\$347,954.00
Low Carbon Transit Operations Program	\$167,914.00	-	1	1	\$167,914.00
Single-Family Solar Photovoltaics (PV)	\$48,317.50	-	3	3	\$48,317.50
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$5,139.44	-	8	8	\$5,139.44
Grand Total	\$1,455,479.94	20612	442	374	\$1,318,663.47

Sources:

Job data: AEE Advanced Energy jobs in California, 2016 | CO2 Equivalents: <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator> | Total Investments: Kevala Analytics | GGRF data: <http://www.arb.ca.gov/cc/capandtrade/auctionproceeds/auctionproceeds.htm>



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Assembly District 49

Ed Chau

The economic benefits of California's climate policies in-district to date:



\$162.3 Million

Documented in-district investment in renewable energy,
energy efficiency, transportation and other climate projects



3,528 Jobs

In the local advanced energy economy



\$2.2 Million

Cap and Trade funds allocated to the district



75% of cap and trade funds

benefit disadvantaged communities



9,312 cars off the road

emission reduction equivalent

As of August 2016

Breakdown of climate projects to date:

Renewable Generation



\$101 Million Invested

2,542 Projects
22.68 Megawatts

Transportation



\$1.7 Million Invested

1,873 EV Rebates
21 Public EV

Energy Efficiency



\$47 Million Invested

2,268 Projects

Other Climate Investment



\$12.73 Million

Returned to ratepayers

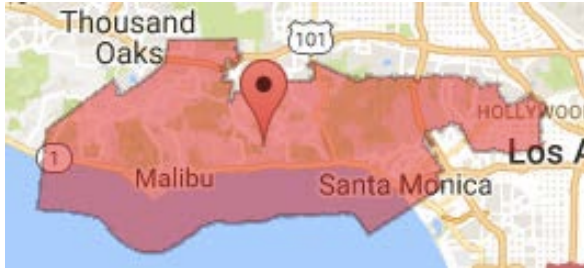
In-district Cap and Trade fund distribution:

49, Ed Chau

Project Type	Sum of Total Dollars Implemented	Sum of GHG Reductions Metric Tons CO2e	Sum of Number of Projects	Sum of # of Projects Benefitting Disadvantaged Communities	Sum of Dollars Benefitting Disadvantaged Communities
Clean Vehicle Rebate Project	\$1,957,375.00	43382	885	634	\$1,404,249.93
Enhanced Fleet Modernization Program Plus-Up	\$46,500.00	133	14	14	\$46,500.00
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$217,602.00	513	9	9	\$217,602.00
Increased Incentives for Public Fleets Pilot Project in Disadvantaged Communities	\$15,250.00	19	2	2	\$15,250.00
Single-Family Solar Photovoltaics (PV)	\$4,375.00	-	1	1	\$4,375.00
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$3,323.62	-	8	8	\$3,323.62
Grand Total	\$2,244,425.62	44047	919	668	\$1,691,300.55

Sources:

Job data: AEE Advanced Energy jobs in California, 2016 | CO2 Equivalents: <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator> | Total Investments: Kevala Analytics | GGRF data: <http://www.arb.ca.gov/cc/capandtrade/auctionproceeds/auctionproceeds.htm>



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Assembly District 50

Richard Bloom

The economic benefits of California's climate policies in-district to date:



\$155 Million

Documented in-district investment in renewable energy,
energy efficiency, transportation and other climate projects



11,055 Jobs

In the local advanced energy economy



\$5 Million

Cap and Trade funds allocated to the district



23% of cap and trade funds

benefit disadvantaged communities



23,161 cars off the road

emission reduction equivalent

As of August 2016

Breakdown of climate projects to date:

Renewable Generation



\$114 Million Invested

3,083 Projects

54.19 Megawatts

Transportation



\$5.3 Million Invested

5,827 EV Rebates

195 Public EV

Energy Efficiency



\$26.6 Million Invested

1,712 Projects

Other Climate Investment



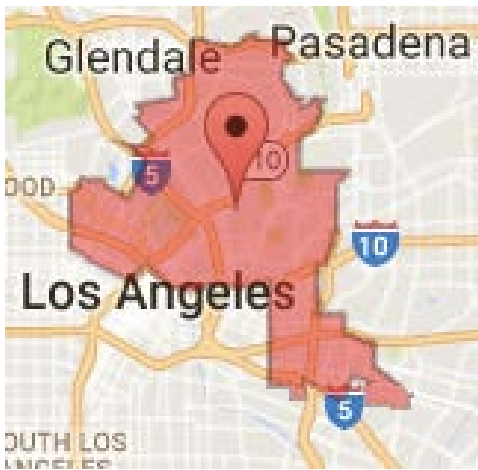
**\$9.6 Million Returned
to Ratepayers**

In-district Cap and Trade fund distribution:

50, Richard Bloom					
Project Type	Sum of Total Dollars Implemented	Sum of GHG Reductions Metric Tons CO2e	Sum of Number of Projects	Sum of # of Projects Benefitting Disadvantaged Communities	Sum of Dollars Benefitting Disadvantaged Communities
Clean Vehicle Rebate Project	\$4,962,111.00	109436	2230	499	\$1,121,867.89
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$48,356.00	114	2	2	\$48,356.00
Grand Total	\$5,010,467.00	109550	2232	501	\$1,170,223.89

Sources:

Job data: AEE Advanced Energy jobs in California, 2016 | CO2 Equivalents: <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator> | Total Investments: Kevala Analytics | GGRF data: <http://www.arb.ca.gov/cc/capandtrade/auctionproceeds/auctionproceeds.htm>



Good for the Economy
Good for the Environment
Good for Communities



Assembly District 51

Jimmy Gomez

The economic benefits of California's climate policies in-district to date:



\$63 Million

Documented in-district investment in renewable energy,
energy efficiency, transportation and other climate projects



7,244 Jobs

In the local advanced energy economy



\$3 Million

Cap and Trade funds allocated to the district



100% of cap and trade funds benefit disadvantaged communities



10,762 cars off the road

emission reduction equivalent

As of August 2016

Breakdown of climate projects to date:

Renewable Generation



\$48.6 Million Invested
1,529 Projects

Transportation



\$2.2 Million Invested
1,183 EV Rebates
45 Public EV

Energy Efficiency



\$7.9 Million Invested
589 Projects

Other Climate Investment



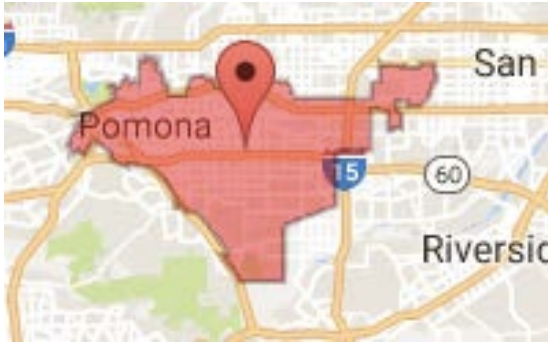
\$1.9 Million Invested
\$2.52 Million
Returned to Ratepayers

In-district Cap and Trade fund distribution:

51, Jimmy Gomez					
Project Type	Sum of Total Dollars Implemented	Sum of GHG Reductions Metric Tons CO2e	Sum of Number of Projects	Sum of # of Projects Benefitting Disadvantaged Communities	Sum of Dollars Benefitting Disadvantaged Communities
Affordable Housing and Sustainable Communities	\$1,900,000.00	29188	1	1	\$1,900,000.00
Clean Vehicle Rebate Project	\$943,265.00	21484	440	440	\$943,264.29
Enhanced Fleet Modernization Program Plus-Up	\$12,000.00	42	3	3	\$12,000.00
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$24,178.00	57	1	1	\$24,178.00
Increased Incentives for Public Fleets Pilot Project in Disadvantaged Communities	\$73,500.00	131	14	14	\$73,500.00
Single-Family Solar Photovoltaics (PV)	\$51,102.50	-	5	5	\$51,102.50
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$8,492.80	-	42	42	\$8,492.80
Grand Total	\$3,012,538.30	50902	506	506	\$3,012,537.59

Sources:

Job data: AEE Advanced Energy jobs in California, 2016 | CO2 Equivalents: <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator> | Total Investments: Kevala Analytics | GGRF data: <http://www.arb.ca.gov/cc/capandtrade/auctionproceeds/auctionproceeds.htm>



Good for the Economy
Good for the Environment
Good for Communities



Assembly District 52

Freddie Rodriguez

The economic benefits of California's climate policies in-district to date:



\$539 Million

Documented in-district investment in renewable energy,
energy efficiency, transportation and other climate projects



7,199 Jobs

in the local advanced energy economy



\$1.3 Million

Cap and Trade funds allocated to the district



100% of cap and trade funds

benefit disadvantaged communities



3,690 cars off the road

emission reduction equivalent

As of August 2016

Breakdown of climate projects to date:

Renewable Generation



\$442 Million Invested
4,574 Projects

Transportation



\$9.7 Million Invested
716 EV Rebates
18 Public EV Stations

Energy Efficiency



\$76 Million Invested
2,707 Projects

Other Climate Investment



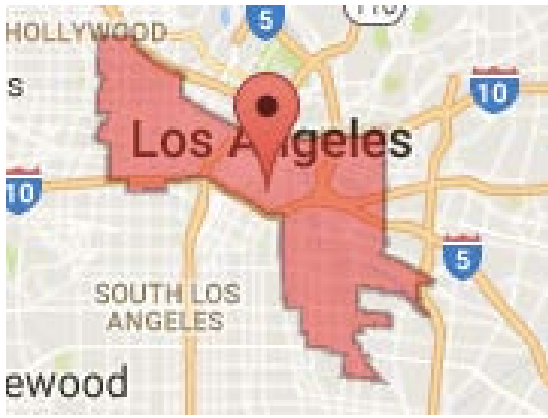
\$11 Million
Returned to ratepayers

In-district Cap and Trade fund distribution:

District 52, Freddie Rodriguez					
Project Type	Total Dollars Implemented	GHG Reductions Metric Tons CO2e	Number of Projects	# of Projects Benefitting Disadvantaged Communities	Dollars Benefitting Disadvantaged Communities
Clean Vehicle Rebate Project	\$ 665,080	15,655	323	322	\$ 662,484
Enhanced Fleet Modernization Program Plus-Up	\$ 5,000	12	1	1	\$ 5,000
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$ 649,654	1,767	31	31	\$ 649,654
Increased Incentives for Public Fleets Pilot Project in Disadvantaged Communities	\$ 10,500	19	2	2	\$ 10,500
Single-Family Solar Photovoltaics (PV)	\$ 11,875	-	1	1	\$ 11,875
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$ 5,182	-	11	11	\$ 5,182
Grand Total	\$ 1,347,291	17,453	369	368	\$ 1,344,695

Sources:

Job data: AEE Advanced Energy jobs in California, 2016 | CO2 Equivalents: <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator> | Total Investments: Kevala Analytics | GGRF data: <http://www.arb.ca.gov/cc/capandtrade/auctionproceeds/auctionproceeds.htm>



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Assembly District 53

Miguel Santiago

**The economic benefits of California's climate policies
in-district to date:**



\$95.8 Million

Documented in-district investment in renewable energy,
energy efficiency, transportation and other climate projects



5,211 Jobs

In the local advanced energy economy



\$14.8 Million

Cap and Trade funds allocated to the district



73% of cap and trade funds benefit disadvantaged communities



72,525 cars off the road

emission reduction equivalent

As of August 2016

Breakdown of climate projects to date:

Renewable Generation



\$35 Million Invested

541 Projects

9.38 Megawatts

Transportation



\$3.16 Million Invested

696 EV Rebates

Energy Efficiency



\$40.9 Million Invested

542 Projects

Other Climate Investment



\$15.5 Million Invested

\$1.17 Million

Returned to ratepayers

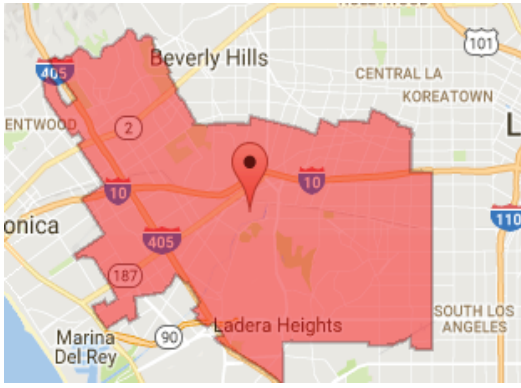
In-district Cap and Trade fund distribution:

53, Miguel Santiago					
Project Type	Sum of Total Dollars Implemented	Sum of GHG Reductions Metric Tons CO2e	Sum of Number of Projects	Sum of # of Projects Benefitting Disadvantaged Communities	Sum of Dollars Benefitting Disadvantaged Communities
Affordable Housing and Sustainable Communities	\$9,500,000.00	47744	2	2	9500000
Car Sharing and Mobility Options Pilot Project	\$300,000.00	-	1	1	300000
Clean Vehicle Rebate Project	\$602,866.00	13624	279	271	585231.061
Enhanced Fleet Modernization Program Plus-Up	\$7,500.00	20	2	2	7500
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$245,742.00	562	9	9	245742
Increased Incentives for Public Fleets Pilot Project in Disadvantaged Communities	\$209,250.00	280	29	29	209250
Recycling Manufacturing	\$4,000,000.00	280813	2	0	0
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$5,328.35	-	25	25	5328.3501
Grand Total	\$14,870,686.35	343043	349	339	\$10,853,051.41

Sources:

Job data: AEE Advanced Energy jobs in California, 2016 | CO2 Equivalents: <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator> | Total Investments: Kevala Analytics | GGRF data:

<http://www.arb.ca.gov/cc/capandtrade/auctionproceeds/auctionproceeds.htm>



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Assembly District 54

Sebastian Ridley-Thomas

The economic benefits of California's climate policies in-district to date:



\$71 Million

Documented in-district investment in renewable energy,
energy efficiency, transportation, and other climate projects



5,395 Jobs

In the local advanced energy economy



\$4.3 Million

Cap and Trade funds allocated to the district



91% of cap and trade funds benefit disadvantaged communities



12,226 cars off the road emission reduction equivalent

As of August 2016

Breakdown of benefits from all climate policies to date:

Renewable Generation



\$51 Million Invested

2,052 Projects

29.5 Megawatts

Transportation



\$1.8 Million in Incentives

2,580 EV Rebates

120 Public EV Stations

Energy Efficiency



\$14 Million Invested

842 Projects

Other Climate Investment



\$2.2 Million Invested

\$2.15 Million

Returned to Ratepayers

In-district Cap and Trade fund distribution:

District 54, Sebastian Rideley-Thomas						
Project Type	Total Dollars Implemented	GHG Reductions Metric Tons CO2e	Number of Projects	# of Projects Benefitting Disadvantaged Communities	Dollars Benefitting Disadvantaged Communities	
Affordable Housing and Sustainable Communities	\$ 2,200,000	13,149	1	1	\$	2,200,000
Clean Vehicle Rebate Project	\$ 1,931,634	44,341	911	741	\$	1,557,367
Enhanced Fleet Modernization Program Plus-Up	\$ 19,000	54	6	6	\$	19,000
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$ 120,769	285	5	4	\$	96,712
Single-Family Solar Photovoltaics (PV)	\$ 65,503	-	5	5	\$	65,503
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$ 2,454	-	19	19	\$	2,454
Grand Total	\$ 4,339,360	57,829	947	776	\$	3,941,036

Sources:

Job data: AEE Advanced Energy jobs in California, 2016 | CO2 Equivalents: <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator> | Total Investments: Kevala Analytics |

GGRF data: <http://www.arb.ca.gov/cc/capandtrade/auctionproceeds/auctionproceeds.htm>



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Assembly District 55

Ling Ling Chang

The economic benefits of California's climate policies in-district to date:



\$314 Million

Documented in-district investment in renewable energy, energy efficiency, transportation, and other climate projects



6,722 Jobs

in the local advanced energy economy



\$2.9 Million

Cap and Trade funds allocated to the district



80% of cap and trade funds

benefit disadvantaged communities



13,337 cars off the road

emission reduction equivalent

As of August 2016

Breakdown of benefits from all climate policies to date:

Renewable Generation



\$231.7 Million Invested

6,547 Projects
119 Megawatts

Transportation



\$12.8 Million in Incentives

3,016 EV Rebates
18 Public EV Stations

Energy Efficiency



\$57 Million Invested

2,318 Projects

Other Climate Investment



\$12.6 Million

Returned to Ratepayers

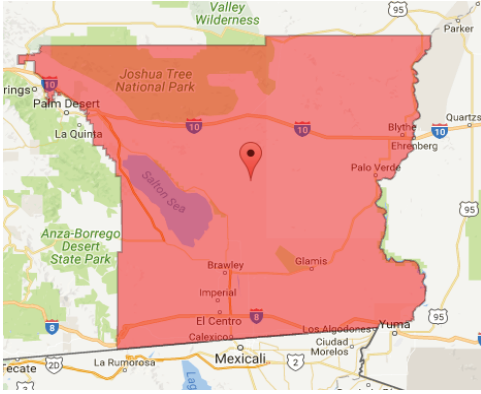
In-district Cap and Trade fund distribution:

District 55, Ling Ling Chang					
Project Type	Total Dollars Implemented	GHG Reductions Metric Tons CO2e	Number of Projects	# of Projects Benefitting Disadvantaged Communities	Dollars Benefitting Disadvantaged Communities
Clean Vehicle Rebate Project	\$ 2,711,639	62,740	1,291	1,000	\$ 2,121,353
Enhanced Fleet Modernization Program Plus-Up	\$ 25,835	81	9	9	\$ 25,835
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$ 72,534	171	3	3	\$ 72,534
Increased Incentives for Public Fleets Pilot Project in Disadvantaged Communities	\$ 90,000	91	9	9	\$ 90,000
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$ 5,497	-	7	7	\$ 5,497
Grand Total	\$ 2,905,505	63,083	1,319	1,028	\$ 2,315,219

Sources:

Job data: AEE Advanced Energy jobs in California, 2016 | CO2 Equivalents: <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator> | Total Investments: Kevala Analytics |

GGRF data: <http://www.arb.ca.gov/cc/capandtrade/auctionproceeds/auctionproceeds.htm>



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Assembly District 56

Eduardo Garcia

The economic benefits of California's climate policies in-district to date:



\$4.5 Billion

Documented in-district investment in renewable energy, energy efficiency, transportation, and other climate projects



2,928 Jobs

In the local advanced energy economy



\$566,000

Cap and Trade funds allocated to the district



83% of cap and trade funds

benefit disadvantaged communities



971 cars off the road

emission reduction equivalent

As of August 2016

Breakdown of benefits from all climate policies to date:

Renewable Generation



\$4.5 Billion Invested

3,214 Projects
2,995 Megawatts

Transportation



\$307,000 in Incentives

203 EV Rebates
5 Public EV Stations

Energy Efficiency



\$32 Million Invested

844 Projects

Other Climate Investment



\$3.8 Million

Returned to Ratepayers

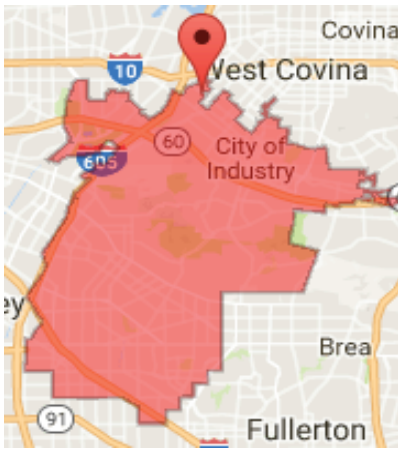
In-district Cap and Trade fund distribution:

District 56, Eduardo Garcia					
Project Type	Total Dollars Implemented	GHG Reductions Metric Tons CO2e	Number of Projects	# of Projects Benefitting	Dollars Benefitting Disadvantaged
Clean Vehicle Rebate Project	\$ 183,533	4,354	90	57	\$ 113,552
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$ 96,591	228	4	3	\$ 72,413
Increased Incentives for Public Fleets Pilot Project in Disadvantaged Communities	\$ 10,000	10	1	1	\$ 10,000
Low Carbon Transit Operations Program	\$ 164,792	-	2	2	\$ 164,792
Single-Family Solar Photovoltaics (PV)	\$ 98,820	-	8	8	\$ 98,820
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$ 12,236	-	59	59	\$ 12,236
Grand Total	\$ 565,972	4,592	164	130	\$ 471,812

Sources:

Job data: AEE Advanced Energy jobs in California, 2016 | CO2 Equivalents: <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator> | Total Investments: Kevala Analytics |

GGRF data: <http://www.arb.ca.gov/cc/capandtrade/auctionproceeds/auctionproceeds.htm>



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Assembly District 57

Ian Calderon

The economic benefits of California's climate policies in-district to date:



\$245 Million

Documented in-district investment in renewable energy,
energy efficiency, transportation, and other climate projects



6,247 Jobs

in the local advanced energy economy



\$1.4 Million

Cap and Trade funds allocated to the district



95% of cap and trade funds

benefit disadvantaged communities



4,826 cars off the road

emission reduction equivalent

As of August 2016

Breakdown of benefits from all climate policies to date:

Renewable Generation



\$157 Million Invested

3,695 Projects

95 Megawatts

Transportation



\$1.8 Million in Incentives

1,099 EV Rebates

24 Public EV Stations

Energy Efficiency



\$74 Million Invested

2,857 Projects

Other Climate Investment



\$11.8 Million

Returned to Ratepayers

In-district Cap and Trade fund distribution:

District 57, Ian Calderon					
Project Type	Total Dollars Implemented	GHG Reductions Metric Tons CO2e	Number of Projects	# of Projects Benefitting Disadvantaged Communities	Dollars Benefitting Disadvantaged Communities
Clean Vehicle Rebate Project	\$ 963,544	21,819	447	415	\$ 897,089
Enhanced Fleet Modernization Program Plus-Up	\$ 26,500	85	10	10	\$ 26,500
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$ 368,775	912	16	16	\$ 368,775
Increased Incentives for Public Fleets Pilot Project in Disadvantaged Communities	\$ 10,000	10	1	1	\$ 10,000
Low Carbon Transit Operations Program	\$ 5,100	-	1	1	\$ 5,100
Single-Family Solar Photovoltaics (PV)	\$ 16,293	-	1	1	\$ 16,293
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$ 12,966	-	15	15	\$ 12,966
Grand Total	\$ 1,403,177	22,826	491	459	\$ 1,336,723

Sources:

Job data: AEE Advanced Energy jobs in California, 2016 | CO2 Equivalents: <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator> | Total Investments: Kevala Analytics |

GGRF data: <http://www.arb.ca.gov/cc/capandtrade/auctionproceeds/auctionproceeds.htm>



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Assembly District 58

Cristina Garcia

The economic benefits of California's climate policies in-district to date:



\$197 Million

Documented in-district investment in renewable energy,
energy efficiency, transportation, and other climate projects



1,822 Jobs

In the local advanced energy economy



\$900,800

Cap and Trade funds allocated to the district



100% of cap and trade funds

benefit disadvantaged communities



3,645 cars off the road

emission reduction equivalent

As of August 2016

Breakdown of benefits from all climate policies to date:

Renewable Generation



\$136 Million Invested

2,163 Projects
39 Megawatts

Transportation



\$1.4 Million in Incentives

896 EV Rebates
28 Public EV Stations

Energy Efficiency



\$48 Million Invested

2,413 Projects

Other Climate Investment



\$12 Million

Returned to Ratepayers

In-district Cap and Trade fund distribution:

District 58, Cristina Garcia					
Project Type	Total Dollars Implemented	GHG Reductions Metric Tons CO2e	Number of Projects	# of Projects Benefitting Disadvantaged Communities	Dollars Benefitting Disadvantaged Communities
Clean Vehicle Rebate Project	\$ 705,768	16,864	349	348	\$ 704,208
Enhanced Fleet Modernization Program Plus-Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$ 12,500	37	4	4	\$ 12,500
Single-Family Solar Photovoltaics (PV)	\$ 145,068	342	6	6	\$ 145,068
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$ 27,524	-	2	2	\$ 27,524
	\$ 9,918	-	38	38	\$ 9,918
Grand Total	\$ 900,778	17,243	399	398	\$ 899,218

Sources:

Job data: AEE Advanced Energy jobs in California, 2016 | CO2 Equivalents: <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator> | Total Investments: Kevala Analytics |

GGRF data: <http://www.arb.ca.gov/cc/capandtrade/auctionproceeds/auctionproceeds.htm>



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Assembly District 59

Reggie Jones-Sawyer

The economic benefits of California's climate policies in-district to date:



\$47.5 Million

Documented in-district investment in renewable energy,
energy efficiency, transportation, and other climate projects



1,133 Jobs

in the local advanced energy economy



\$11 Million

Cap and Trade funds allocated to the district



100% of cap and trade funds

benefit disadvantaged communities



8,564 cars off the road

emission reduction equivalent

As of August 2016

Breakdown of benefits from all climate policies to date:

Renewable Generation



\$24.9 Million Invested

1,116 Projects

11 Megawatts

Transportation



\$520,000 in Incentives

135 EV Rebates

8 Public EV Stations

Energy Efficiency



\$10 Million Invested

509 Projects

Other Climate Investment



\$10.5 Million Invested

\$1.74 Million

Returned to Ratepayers

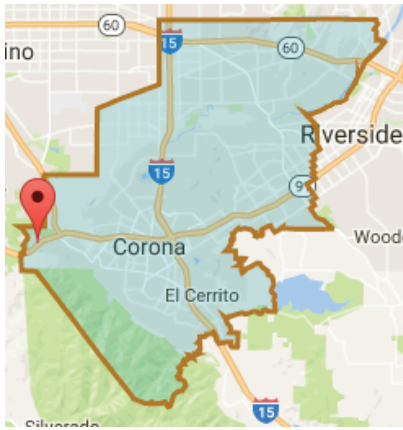
In-district Cap and Trade fund distribution:

59, Reggie Jones-Sawyer						
Project Type	Total Dollars Implemented	GHG Reductions Metric Tons CO2e	Number of Projects	# of Projects Benefitting Disadvantaged Communities	Dollars Benefitting Disadvantaged Communities	
Affordable Housing and Sustainable Communities	\$ 10,500,000	36,917	2	2	\$	10,500,000
Clean Vehicle Rebate Project	\$ 135,895	3,031	62	61	\$	133,293
Enhanced Fleet Modernization Program Plus-Up	\$ 2,500	8	1	1	\$	2,500
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$ 260,126	554	8	8	\$	260,126
Single-Family Solar Photovoltaics (PV)	\$ 112,227	-	9	9	\$	112,227
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$ 5,373	-	19	19	\$	5,373
Grand Total	\$ 11,016,121	40,510	101	100	\$	11,013,519

Sources:

Job data: AEE Advanced Energy jobs in California, 2016 | CO2 Equivalents: <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator> | Total Investments: Kevala Analytics |

GGRF data: <http://www.arb.ca.gov/cc/capandtrade/auctionproceeds/auctionproceeds.htm>



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Assembly District 60

Eric Linder

The economic benefits of California's climate policies in-district to date:



\$296 Million

Documented in-district investment in renewable energy,
energy efficiency, transportation, and other climate projects



3,577 Jobs

in the local advanced energy economy



\$1.2 Million

Cap and Trade funds allocated to the district



99% of cap and trade funds

benefit disadvantaged communities



4,686 cars off the road

emission reduction equivalent

As of August 2016

Breakdown of benefits from all climate policies to date:

Renewable Generation



\$234 Million Invested

7,495 Projects
65 Megawatts

Transportation



\$2.2 Million in Incentives

1,001 EV Rebates
5 Public EV Stations

Energy Efficiency



\$52 Million Invested

1,834 Projects

Other Climate Investment



\$7.7 Million

Returned to Ratepayers

In-district Cap and Trade fund distribution:

Project Type	Total Dollars Implemented	GHG Reductions Metric Tons CO2e	Number of Projects	# of Projects Benefitting	Dollars Benefiting Disadvantaged Communities
Clean Vehicle Rebate Project	\$ 886,768	21,555	447	447	\$ 886,765
Enhanced Fleet Modernization	\$ 6,500	24	3	3	\$ 6,500
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$ 236,430	570	10	10	\$ 236,430
Increased Incentives for Public Fleets Pilot Project in Disadvantaged	\$ 20,000	20	2	2	\$ 20,000
Single-Family Solar Photovoltaics	\$ 37,594	-	5	5	\$ 37,594
Grand Total	\$ 1,187,292	22,169	467	467	\$ 1,187,288

Sources:

Job data: AEE Advanced Energy jobs in California, 2016 | CO2 Equivalents: <https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator> | Total Investments: Kevala Analytics |

GGRF data: <http://www.arb.ca.gov/cc/capandtrade/auctionproceeds/auctionproceeds.htm>