



# District Economic Facts from Climate Policies

California Assembly Districts  
August 2016

Districts 1 - 20



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## 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 1

Brian Dahle

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



## \$541 Million

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



## 13,137 Jobs

In the local advanced energy economy



## \$16.7 Million

Cap and Trade funds allocated to the district



## 0% of cap and trade funds benefit disadvantaged communities



## 266,879 cars off the road

emission reduction equivalent

**As of August 2016**

## Breakdown of benefits from all climate policies to date:

### Renewable Generation



**\$429 Million Invested**

4,701 Installations

4699 Megawatts

### Transportation



**\$5 Million Incentives**

291 EV Rebates

27 EV Stations

### Energy Efficiency



**\$66.1 Million Invested**

1,399 Installations

### Other Climate Investment



**\$21 Million Invested**

\$19.2 million  
returned to ratepayers

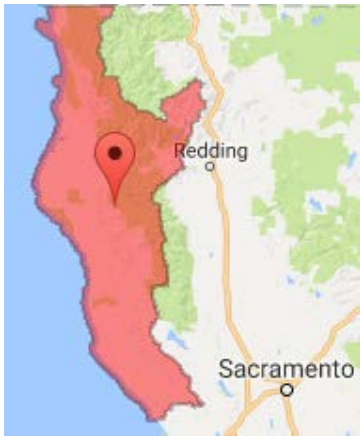
## In-district Cap and Trade fund distribution:

District 1, Brian Dahle					
Project Type	Sum of Total Dollars Implemented	Sum of GHG Reductions Metric Tons CO2e	Sum of Number of Projects	Benefitting Disadvantaged Communities	Disadvantaged Communities
Affordable Housing and Sustainable Communities	\$ 8,000,000	20,079	1	0	0
Clean Vehicle Rebate Project	\$ 328,301	7,680	158	0	0
Forest Health Program	\$ 1,485,714	1,060,478	15	0	0
Forest Legacy Program	\$ 225,000	72,566	1	0	0
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$ 52,560	57	1	0	0
Low Carbon Transit Operations Program	\$ 171,281	-	5	0	0
Mountain Meadow Ecosystems	\$ 3,904,253	61,348	5	0	0
Sustainable Agricultural Lands Conservation	\$ 2,552,500	40,129	3	0	0
<b>Grand Total</b>	<b>\$ 16,719,609</b>	<b>1,262,337</b>	<b>189</b>	<b>0</b>	<b>0</b>

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 2

Jim Wood

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



# \$420.2 Million

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



# 9,429 Jobs

in the local advanced energy economy



# \$3.3 Million

Cap and Trade funds allocated to the district



# 0% of cap and trade funds

benefit disadvantaged communities



# 59,804 cars off the road

emission reduction equivalent

**As of August 2016**

## Breakdown of benefits from all climate policies to date:

### Renewable Generation



**\$354 Million Invested**  
6,912 Projects  
1,224 Megawatts

### Transportation



**\$3.7 Million incentives**  
1,551 EV Rebates  
41 EV Stations

### Energy Efficiency



**\$45 Million Invested**  
2,818 Projects

### Other Climate Investment



**\$1.7 Million Invested**  
\$15.53 million  
returned to ratepayers

## In-district Cap and Trade fund distribution:

District 2, Jim Wood					
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	\$ 1,433,345.00	33,259.00	684	0	0
Forest Health Program	\$ 695,131.00	10,379.00	2	0	0
Forest Legacy Program	\$ 950,000.00	239,122.00	2	0	0
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$ 48,356.00	114.00	2	0	0
Low Carbon Transit Operations Program	\$ 35,760.00	-	2	0	0
Sustainable Agricultural Lands Conservation	\$ 93,400.00	-	1	0	0
<b>Grand Total</b>	<b>\$ 3,255,992.00</b>	<b>282,874.00</b>	<b>693</b>	<b>0</b>	<b>0</b>

#### 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 3

James Gallagher

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



# \$601.7 Million

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



# 4,991 Jobs

In the local advanced energy economy



# \$7.5 Million

Cap and Trade funds allocated to the district



# 6% of cap and trade funds

benefit disadvantaged communities



# 5,951 cars off the road

emission reduction equivalent

**As of August 2016**

## Breakdown of benefits from all climate policies to date:

### Renewable Generation



**\$475 Million Invested**

8,438 Projects  
659 Megawatts

### Transportation



**\$7.4 Million Incentives**

178 EV Rebates  
9 EV Stations

### Energy Efficiency



**\$100.6 Million Invested**

447 Projects

### Other Climate Investment



**\$2.53 Million Invested**

\$12.35 million  
returned to ratepayers

## In-district Cap and Trade fund distribution:

District 3, James Gallagher					
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	\$ 169,487	4,018	83	19	\$ 37,834.40
Increased Incentives for Public Fleets Pilot Project in Disadvantaged Communities	\$ 20,000	20	2	2	\$ 20,000.00
Low Carbon Transit Operations Program	\$ 81,067	-	2	2	\$ 81,067.00
Mountain Meadow Ecosystems	\$ 539,672	194	1	0	\$ -
Single-Family Solar Photovoltaics (PV)	\$ 43,516	-	4	4	\$ 43,516.25
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$ 53	-	1	1	\$ 53.29
Statewide Water Efficiency Enhancement Program	\$ 3,060,659	23,915	54	4	\$ 267,496.00
Sustainable Agricultural Lands Conservation	\$ 100,000	-	1	0	\$ -
Water Energy - Turbines	\$ 3,500,000	-	2	0	\$ -
<b>Grand Total</b>	<b>\$ 7,514,455</b>	<b>28,147</b>	<b>150</b>	<b>32</b>	<b>\$ 449,966.94</b>

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 4

Bill Dodd

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



## \$885 Million

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



## 10,247 Jobs

in the local advanced energy economy



## \$5.5 Million

Cap and Trade funds allocated to the district



## 5% of cap and trade funds

benefit disadvantaged communities



## 23,151 cars off the road

emission reduction equivalent

## Breakdown of all climate projects to date:

### Renewable



**\$767 Million  
Invested**  
12,482 Projects

### Transportation



**\$8.6 Million Incentives**  
1,409 EV Rebates  
54 Public EV

### Energy Efficiency



**\$93.8 Million Invested**  
3,575 Projects

### Other Climate



**\$12.5 Million**  
Returned to Ratepayers  
239,561 Projects

## In-district Cap and Trade fund distribution:

District 4, Bill Dodd						
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	\$ 1,332,255	29,981	613	115	\$	259,704
Forest Legacy Program	\$ 2,850,000	75,803	1	-	\$	-
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$ 24,178	57	1	-	\$	-
Increased Incentives for Public Fleets Pilot Project in Disadvantaged Communities	\$ 5,250	9	1	1	\$	5,250
Low Carbon Transit Operations Program	\$ 30,977	-	1	-	\$	-
Single-Family Solar Photovoltaics (PV)	\$ 5,145	-	1	1	\$	5,145
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$ 537	-	3	3	\$	537
Statewide Water Efficiency Enhancement Program	\$ 803,050	1,692	13	-	\$	-
Sustainable Agricultural Lands Conservation	\$ 504,000	1,963	1	-	\$	-
Grand Total	\$ 5,555,392	109,505	635	120	\$	270,636

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 5

Frank Bigelow

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



# \$624 Million

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



# 8,554 Jobs

In the local advanced energy economy



# \$9.3 Million

Cap and Trade funds allocated to the district



# 33% of cap and trade funds

benefit disadvantaged communities



# 127,212 cars off the road

emission reduction equivalent

## Breakdown of benefits from all climate policies to date:

### Renewable Generation



**\$344 Million Invested**  
7,714 Projects  
3,120 Megawatts

### Transportation



**\$3.8 Million Incentives**  
452 EV Rebates  
4 EV Stations

### Energy Efficiency



**\$78.3 Million Invested**  
3,223 Projects

### Other Climate Investment



**\$183.39 Million Invested**  
\$14.62 Million  
returned to ratepayers

## In-district Cap and Trade fund distribution:

District 5, Frank Bigelow					
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	\$ 473,651	10,659	218	58	\$ 138,998
Dairy Digester Research and Development	\$ 2,281,091	240,000	1	1	\$ 2,281,091
Enhanced Fleet Modernization Program Plus-Up	\$ 17,500	53	6	6	\$ 17,500
Forest Health Program	\$ 3,713,645	301,468	8	0	\$ -
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	\$ 10,000	10	1	1	\$ 10,000
Low Carbon Transit Operations Program	\$ 64,695	-	2	1	\$ 50,146
Mountain Meadow Ecosystems	\$ 1,081,539	3,682	2	0	\$ -
Single-Family Solar Photovoltaics (PV)	\$ 425,317	-	30	30	\$ 425,317
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$ 16,852	-	34	34	\$ 16,852
Statewide Water Efficiency Enhancement Program	\$ 83,988	33	1	1	\$ 83,988
Sustainable Agricultural Lands Conservation	\$ 1,017,500	45,637	2	0	\$ -
<b>Grand Total</b>	<b>\$ 9,258,312</b>	<b>601,713</b>	<b>308</b>	<b>135</b>	<b>\$ 3,096,426</b>

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 6

Beth Gaines

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



## \$461 Million

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



## 9,891 Jobs

In the local advanced energy economy



## \$1.98 Million

Cap and Trade funds allocated to the district



## 0% of cap and trade funds benefit disadvantaged communities



## 8,989 cars off the road

emission reduction equivalent

**As of August 2016**

## Breakdown of benefits from all climate policies to date:

### Renewable Generation



**\$427 Million Invested**

13,143 Projects  
375.7 Megawatts

### Transportation



**2,012 EV Rebates**

61 EV Stations

### Energy Efficiency



**\$28.6 Million Invested**

1,199 Projects

### Other Climate Investment



**\$50,000 Invested**

\$5.19 million  
returned to ratepayers

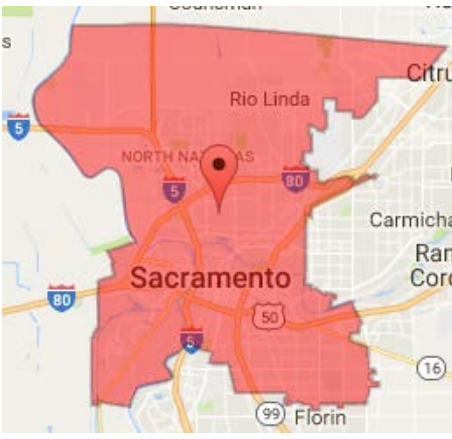
## In-district Cap and Trade fund distribution:

6, Beth Gaines					
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	\$ 1,912,136	42,518	868	0	0
Low Carbon Transit Operations Program	\$ 67,699	-	3	0	0
<b>Grand Total</b>	<b>\$ 1,979,835</b>	<b>42,518</b>	<b>871</b>	<b>0</b>	<b>0</b>

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 7

Kevin McCarty

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



## \$143 Million

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



## 14,532 Jobs

in the local advanced energy economy



## \$8.3 Million

Cap and Trade funds allocated to the district



## 98% of cap and trade funds benefit disadvantaged communities



## 10,182 cars off the road

emission reduction equivalent



## Breakdown of benefits from all climate policies to date:

### Renewable Generation



**\$88.6 Million  
Invested**

1,058 Installations  
20.1 Megawatts

### Transportation



**\$20.6 Million Incentives**

827 EV Rebates  
146 EV Stations

### Energy Efficiency



**\$26.3 Million Invested**

654 Projects

### Other Climate Investment



**\$6.73 Million Invested**

\$1.3 million  
returned to ratepayers

## In-district Cap and Trade fund distribution:

7, Kevin McCarty					
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	\$ 6,730,888	29,374	1	1	\$ 6,730,888
Clean Vehicle Rebate Project	\$ 837,776	18,584	379	302	\$ 668,251
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	\$ 121,500	146	15	15	\$ 121,500
Low Carbon Transit Operations Program	\$ 58,883	-	1	1	\$ 58,883
Single-Family Solar Photovoltaics (PV)	\$ 443,652	-	26	26	\$ 443,652
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$ 103,274	-	87	87	\$ 103,274
<b>Grand Total</b>	<b>\$ 8,320,151</b>	<b>48,161</b>	<b>510</b>	<b>433</b>	<b>\$ 8,150,626</b>

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 8

Ken Cooley

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



## \$151.2 Million

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



## 2,782 Jobs

in the local advanced energy economy



## \$970,000

Cap and Trade funds allocated to the district



## 79% of cap and trade funds benefit disadvantaged communities



## 3,289 cars off the road emission reduction equivalent

**As of August 2016**

## Breakdown of benefits from all climate policies to date:

### Renewable Generation



**\$120 Million Invested**

710 Projects

30.3 Megawatts

### Transportation



**\$4.9 Million Incentives**

792 EV Rebates

22 EV Stations

### Energy Efficiency



**\$26.3 Million Invested**

285 Projects

### Other Climate Investment



**\$0 Million Invested**

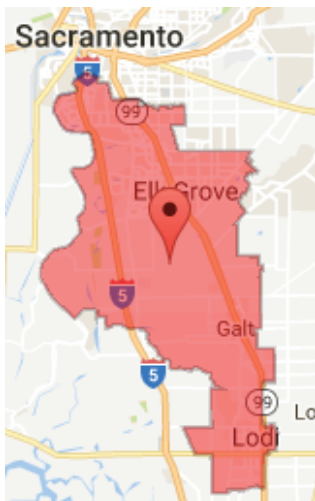
## In-district Cap and Trade fund distribution:

8, Ken Cooley					
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	\$ 701,093	15,452	315	219	\$ 494,920
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	\$ 26,250	47	5	5	\$ 26,250
Low Carbon Transit Operations Program	\$ 45,292	-	1	1	\$ 45,292
Single-Family Solar Photovoltaics (PV)	\$ 168,549	-	8	8	\$ 168,549
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$ 3,791	-	4	4	\$ 3,791
<b>Grand Total</b>	<b>\$ 969,152</b>	<b>15,556</b>	<b>334</b>	<b>238</b>	<b>\$ 762,980</b>

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 9

Jim Cooper

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



# \$443 Million

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



# 2,128 Jobs

In the local advanced energy economy



# \$1.44 Million

Cap and Trade funds allocated to the district



# 96% of cap and trade funds benefit disadvantaged communities



# 3,058 cars off the road

emission reduction equivalent

As of August 2016

## Breakdown of benefits from all climate policies to date:

### Renewable Generation



**\$433 Million Invested**

551 Projects

94 Megawatts

### Transportation



**\$2.5 Million in Incentives**

509 EV Rebates

13 Public EV Stations

### Energy Efficiency



**\$7.07 Million Invested**

227 Projects

### Other Climate Investment



**\$50,000 Invested**

\$250,000

Returned to Ratepayers

## In-district Cap and Trade fund distribution:

District 9, Jim Cooper					
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	\$ 630,610	14,257	292	291	\$ 628,010
Enhanced Fleet Modernization Program Plus-Up	\$ 7,500	20	2	2	\$ 7,500
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	\$ 50,500	59	6	6	\$ 50,500
Low Carbon Transit Operations Program	\$ 437,677	-	3	3	\$ 437,677
Single-Family Solar Photovoltaics (PV)	\$ 231,344	-	12	12	\$ 231,344
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$ 9,382	-	5	5	\$ 9,382
Statewide Water Efficiency Enhancement Program	\$ 54,983	70	1	-	\$ -
<b>Grand Total</b>	<b>\$ 1,446,173</b>	<b>14,463</b>	<b>322</b>	<b>320</b>	<b>\$ 1,388,590</b>

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 10

Marc Levine

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



# \$449 Million

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



# 6,851 Jobs

in the local advanced energy economy



# \$4.3 Million

Cap and Trade funds allocated to the district



# 0% of cap and trade funds

benefit disadvantaged communities



# 15,400 cars off the road

emission reduction equivalent

As of August 2016

## Breakdown of benefits from all climate policies to date:

### Renewable Generation



**\$366 Million Invested**

8,466 Projects

87.3 Megawatts

### Transportation



**\$5.5 Million Incentives**

3,360 EV Rebates

135 EV Stations

### Energy Efficiency



**\$64.3 Million Invested**

2,681 Installations

### Other Climate Investment



**\$490,000 Invested**

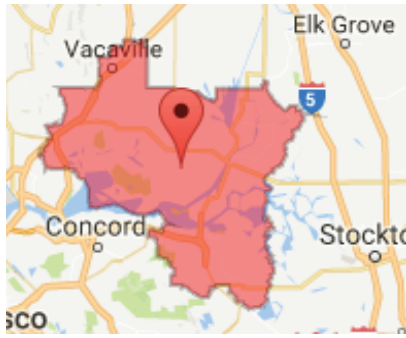
\$12.6 million  
returned to ratepayers

## In-district Cap and Trade fund distribution:

10, Marc Levine					
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	\$ 3,298,680	71,539	1453	1	\$ 2,595
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$ 173,450	342	6	0	\$ -
Low Carbon Transit Operations Program	\$ 308,429	-	3	0	\$ -
Sustainable Agricultural Lands Conservation	\$ 490,050	963	1	0	\$ -
<b>Grand Total</b>	<b>\$ 4,270,609</b>	<b>72,844</b>	<b>1463</b>	<b>1</b>	<b>\$ 2,595</b>

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 11

Jim Frazier

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



## \$2.36 Billion

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



## 3,110 Jobs

In the local advanced energy economy



## \$11.3 Million

Cap and Trade funds allocated to the district



## 96% of cap and trade funds benefit disadvantaged communities



## 109,597 cars off the road emission reduction equivalent

**As of August 2016**

## Breakdown of benefits from all climate policies to date:

### Renewable Generation



**\$2.3 Billion Invested**

9,455 Projects

1,116 Megawatts

### Transportation



**\$30,000 in Incentives**

551 EV Rebates

36 Public EV Stations

### Energy Efficiency



**\$49 Million Invested**

1,396 Projects

### Other Climate Investment



**\$10.5 Million Invested**

\$10.7 Million

Returned to Ratepayers

## In-district Cap and Trade fund distribution:

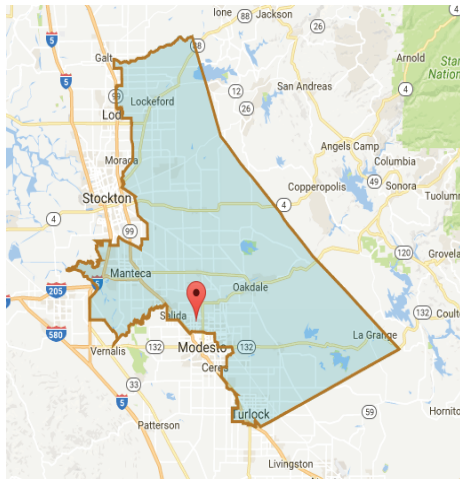
District 11, Jim Frazier					
Project Type	Total Dollars Implemented	GHG Reductions Metric Tons CO2e	Number of Projects	# of Projects Benefitting Disadvantaged Communities	Dollars Benefitting Disadvantaged Communities
Clean Vehicle Rebate Project	\$ 687,911	16,884	351	206	\$ 414,679
Low Carbon Transit Operations Program	\$ 98,890	-	1	-	\$ -
Sacramento-San Joaquin Delta and Coastal Wetlands	\$ 10,386,139	500,000	1	1	\$ 10,386,139
Single-Family Solar Photovoltaics (PV)	\$ 27,578	-	2	2	\$ 27,578
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$ 19,625	-	32	32	\$ 19,625
Statewide Water Efficiency Enhancement Program	\$ 115,526	1,509	2	1	\$ 53,400
<b>Grand Total</b>	<b>\$ 11,335,668</b>	<b>518,393</b>	<b>389</b>	<b>242</b>	<b>\$ 10,901,421</b>

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 12

Kristin Olsen

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



# \$373 Million

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



# 5,716 Jobs

In the local advanced energy economy



# \$2 Million

Cap and Trade funds allocated to the district



# 34% of cap and trade funds

benefit disadvantaged communities



# 11,225 cars off the road

emission reduction equivalent

As of August 2016

## Breakdown of benefits from all climate policies to date:

### Renewable Generation



**\$314 Million Invested**

5,317 Projects  
134 Megawatts

### Transportation



**\$5.8 Million in Incentives**

535 EV Rebates  
10 Public EV Stations

### Energy Efficiency



**\$46.8 Million Invested**

1,777 Projects

### Other Climate Investment



**\$2 Million Invested**

\$4.5 Million  
Returned to Ratepayers

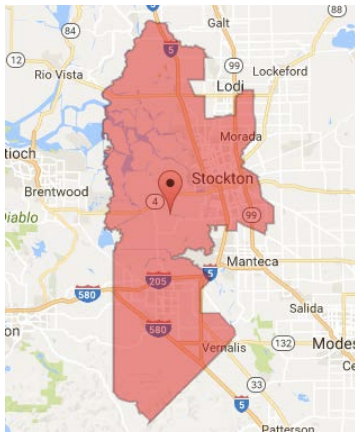
## In-district Cap and Trade fund distribution:

Project Type	Total Dollars Implemented	GHG Reductions Metric Tons CO2e	Number of Projects	# of Projects Benefitting Disadvantaged Communities	Dollars Benefitting Disadvantaged Communities
Clean Vehicle Rebate Project	\$ 472,728	10,329	210	206	\$ 465,460
Enhanced Fleet Modernization Program	\$ 50,000	145	16	16	\$ 50,000
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$ 114,582	277	4	4	\$ 114,582
Recycling Manufacturing	\$ 1,000,000	41,900	1	-	\$ -
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$ 49,546	-	82	82	\$ 49,546
Statewide Water Efficiency Enhancement	\$ 308,916	443	4	-	\$ -
<b>Grand Total</b>	<b>\$ 1,995,772</b>	<b>53,094</b>	<b>317</b>	<b>308</b>	<b>\$ 679,588</b>

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 13

**Susan Talamantes Eggman**

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



# \$354 Million

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



# 2,707 Jobs

In the local advanced energy economy



# \$13.9 Million

Cap and Trade funds allocated to the district



# 100% of cap and trade funds benefit disadvantaged communities



# 50,082 cars off the road

emission reduction equivalent

**As of August 2016**

## Breakdown of benefits of climate investment to date:

### Renewable Generation



**\$263 Million  
Invested**  
5,823 Projects

### Transportation



**\$21 Million Incentives**  
528 EV Rebates

### Energy Efficiency



**\$55 Million Invested**  
2,453 Projects

### Other Climate Investment



**\$5.9 Million Invested**  
\$9.6 Million  
Returned to

## In-district Cap and Trade fund distribution:

District 13, Susan Talamantes Eggman					
Project Type	Total Dollars Implemented	GHG Reductions Metric Tons CO2e	Number of Projects	# of Projects Benefitting Disadvantaged Communities	\$ Benefitting Disadvantaged Communities
Affordable Housing and Sustainable Communities	\$5,857,096	14,404	1	1	\$5,857,096
Clean Vehicle Rebate Project	\$545,836	12,349	253	252	\$544,278
Enhanced Fleet Modernization Program Plus-Up	\$122,500	342	33	33	\$122,500
Low Carbon Transit Operations Program	\$221,773	-	1	1	\$221,773
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$9,176	-	21	21	\$9,176
Statewide Water Efficiency Enhancement Program	\$167,760	539	2	2	\$167,760
Transit and Intercity Rail Capital Program	\$7,041,000	209,254	2	2	\$7,041,000
<b>Grand Total</b>	<b>\$13,965,140.83</b>	<b>236,888.00</b>	<b>313</b>	<b>312</b>	<b>\$13,963,582.40</b>

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 14

**Susan Bonilla**

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



# \$706 Million

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



# 9,168 Jobs

In the local advanced energy economy



# \$2.5 Million

Cap and Trade funds allocated to the district



# 55% of cap and trade funds

benefit disadvantaged communities



# 8,599 cars off the road

emission reduction equivalent

**As of August 2016**

## Breakdown of all climate projects to date:

### Renewable Generation



**\$623 Million Invested**

8,987 Installations

231 Megawatts

### Transportation



**\$1.2 Million Incentives**

1,925 EV Rebates

74 Public EV

### Energy Efficiency



**\$70.8 Million Invested**

2,227 Installations

### Other Climate Investment



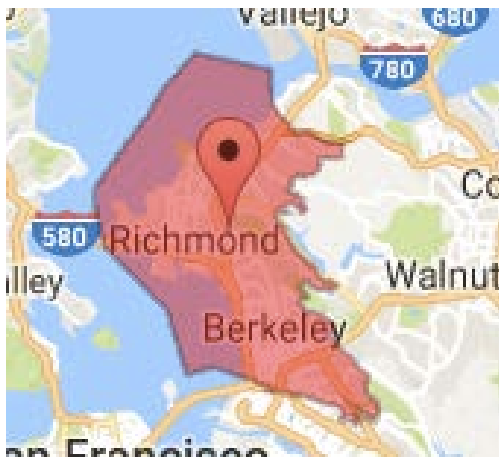
**\$11.6 Million Returned  
to Ratepayers**

## In-district Cap and Trade fund distribution:

District 14, Susan Bonilla					
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	\$1,746,870.00	40,498	833	317	\$639,525
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$77,790.00	114	2	2	\$77,790
Increased Incentives for Public Fleets Pilot Project in Disadvantaged Communities	\$60,000.00	60	6	6	\$60,000
Low Carbon Transit Operations Program	\$533,971.00	-	3	3	\$533,971
Single-Family Solar Photovoltaics (PV)	\$27,223.75	-	3	3	\$27,224
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$7,693.71	-	25	25	\$7,694
Grand Total	\$2,453,548.46	40,672	872	356	\$1,346,204

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 15

Tony Thurmond

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



## \$305 Million

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



## 7,433 Jobs

In the local advanced energy economy



## \$20 Million

Cap and Trade funds allocated to the district



## 62% of cap and trade funds benefit disadvantaged communities



## 27,293 cars off the road

emission reduction equivalent

**As of August 2016**

## Breakdown of climate projects to date:

### Renewable Generation



**\$217 Million Invested**

6,376 Projects

46 Megawatts

### Transportation



**\$2.5 Million Incentives**

3,354 EV Rebates

### Energy Efficiency



**\$58 Million Invested**

2,301 Projects

### Other Climate Investment



**\$16.3 Million Invested**

\$12.5

Returned to Ratepayers

## In-district Cap and Trade fund distribution:

District 15, Tony Thurmond					
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	\$16,267,830.00	60411	3	2	\$10,609,958.00
Clean Vehicle Rebate Project	\$3,076,048.00	68553	1399	494	\$1,057,191.89
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$48,235.00	114	2	2	\$48,235.00
Increased Incentives for Public Fleets Pilot Project in Disadvantaged Communities	\$15,250.00	19	2	2	\$15,250.00
Low Carbon Transit Operations Program	\$573,226.00	-	1	1	\$573,226.00
Single-Family Solar Photovoltaics (PV)	\$82,654.25	-	18	18	\$82,654.25
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$9,689.83	-	35	35	\$9,689.83
<b>Grand Total</b>	<b>\$20,072,933.08</b>	<b>129097</b>	<b>1460</b>	<b>554</b>	<b>\$12,396,204.97</b>

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 16

Catharine Baker

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



# \$462 Million

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



# 3,548 Jobs

In the local advanced energy economy



# \$10 Million

Cap and Trade funds allocated to the district



# 3% of cap and trade funds

benefit disadvantaged communities



# 25,430 cars off the road

emission reduction equivalent

As of August 2016

## Breakdown of climate projects to date:

### Renewable Generation



**\$397 Million Invested**

9,904 Projects

462.24 Megawatts

### Transportation



**\$2.4 Million Invested**

4,264 EV Rebates

113 Public EV Stations

### Energy Efficiency



**\$45 Million Invested**

1,645 Projects

### Other Climate Investment



**\$5 Million Invested**

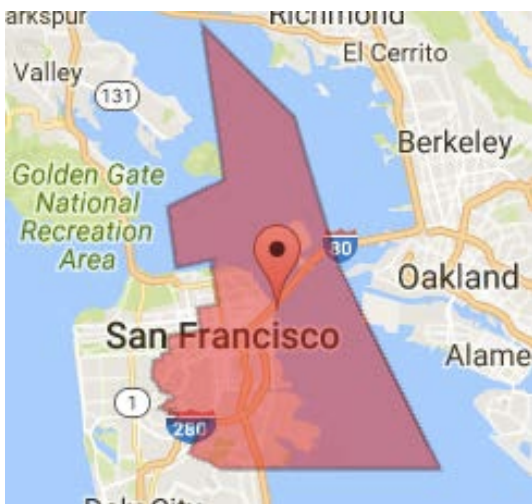
\$12.1 Million Returned  
to Ratepayers

## In-district Cap and Trade fund distribution:

District 16, Catherine Baker					
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	\$4,956,610.00	8110	1	0	0
Clean Vehicle Rebate Project	\$5,034,664.00	112117	2289	132	\$ 275,735.45
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$24,178.00	57	1	0	0
Low Carbon Transit Operations Program	\$107,192.00	-	1	0	0
<b>Grand Total</b>	<b>\$10,122,644.00</b>	<b>120284</b>	<b>2292</b>	<b>132</b>	<b>\$275,735.45</b>

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 17

David Chiu

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



# \$260 Million

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



# 16,446 Jobs

In the local advanced energy economy



# \$26 Million

Cap and Trade funds allocated to the district



# 51% of cap and trade funds

benefit disadvantaged communities



# 33,404 cars off the road

emission reduction equivalent

As of August 2016

## Breakdown of climate projects to date:

### Renewable Generation



**\$155 Million Invested**

3,847 Projects

35.75 Megawatts

### Transportation



**\$1.6 Million Incentives**

1,959 EV Rebates

225 Public EV Stations

### Energy Efficiency



**\$65 Million Invested**

2,136 Projects

### Other Climate Investment



**\$23.8 Million Invested**

\$15.1 Million

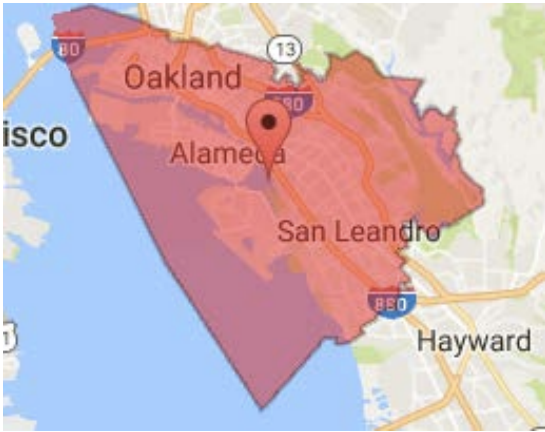
Returned to Ratepayers

## In-district Cap and Trade fund distribution:

District 17, David Chiu					
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	\$23,784,965.00	118848	3	1	\$12,284,976.00
Clean Vehicle Rebate Project	\$1,787,597.00	38610	783	247	564775.3204
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$120,769.00	285	5	4	96712
Increased Incentives for Public Fleets Pilot Project in Disadvantaged Communities	\$231,500.00	257	26	26	231500
<b>Grand Total</b>	<b>\$25,924,831.00</b>	<b>158000</b>	<b>817</b>	<b>278</b>	<b>\$13,177,963.32</b>

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 18

Rob Bonta

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



# \$257 Million

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



# 6,412 Jobs

In the local advanced energy economy



# \$17.6 Million

Cap and Trade funds allocated to the district



# 94% of cap and trade funds benefit disadvantaged communities



# 57,557 cars off the road

emission reduction equivalent

As of August 2016

## Breakdown of climate projects to date:

### Renewable Generation



**\$173 Million Invested**  
2,823 Projects  
43.8 Megawatts

### Transportation



**\$10.7 Million Incentives**  
2,137 EV Rebates

### Energy Efficiency



**\$47 Million Invested**  
1,851 Projects

### Other Climate Investment



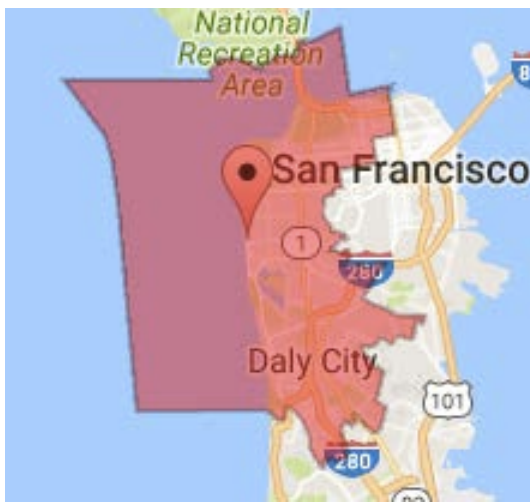
**\$15.56 Million Invested**  
\$10.4 Returned to

## In-district Cap and Trade fund distribution:

District 18, Rob Bonta					
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	\$ 12,560,538.00	27629	3	3	\$ 12,560,538.00
Clean Vehicle Rebate Project	\$ 1,891,470.00	42688	873	428	\$ 903,880.71
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	\$ 65,250.00	69	7	7	\$ 65,250.00
Organics Composting/Digestion Grants	\$ 3,000,000.00	201800	1	1	\$ 3,000,000.00
Single-Family Solar Photovoltaics (PV)	\$ 42,451.50	-	9	9	\$ 42,451.50
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$ 8,806.93	-	15	15	\$ 8,806.93
<b>Grand Total</b>	<b>\$ 17,592,694.43</b>	<b>272243</b>	<b>909</b>	<b>464</b>	<b>\$ 16,605,105.14</b>

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 19

Philip Ting

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



## \$142 Million

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



## 3,278 Jobs

In the local advanced energy economy



## \$1.7 Million

Cap and Trade funds allocated to the district



## 16% of cap and trade funds benefit disadvantaged communities



## 7,946 cars off the road

emission reduction equivalent

**As of August 2016**



## Breakdown of climate projects to date:

### Renewable Generation



**\$117 Million Invested**

2,891 Projects  
22.8 Megawatts

### Transportation



**\$200,000 Incentives**

1,671 EV Rebates  
61 Public EV Stations

### Energy Efficiency



**\$12.5 Million Invested**

1,200 Projects

### Other Climate Investment



**\$11.65 Million**

Returned to Ratepayers

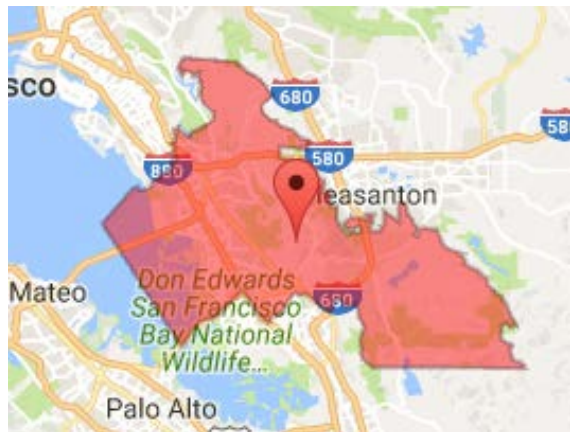
## In-district Cap and Trade fund distribution:

District 19, Philip Ting					
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 Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$ 1,715,856.00	37529	763	121	\$ 258,716.07
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$ 24,057.00	57	1	1	\$ 24,057.00
	\$ 460.20	-	1	1	\$ 460.20
<b>Grand Total</b>	<b>\$ 1,740,373.20</b>	<b>37586</b>	<b>765</b>	<b>123</b>	<b>\$ 283,233.27</b>

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 20

Bill Quirk

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



# \$304 Million

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



# 6,373 Jobs

in the local advanced energy economy



# \$8.9 Million

Cap and Trade funds allocated to the district



# 43% of cap and trade funds

benefit disadvantaged communities



# 21,164 cars off the road

emission reduction equivalent

As of August 2016

## Breakdown of benefits from all climate policies to date:

### Renewable Generation



**\$233 Million Invested**

4,482 Projects  
48.92 Megawatts

### Transportation



**\$6.2 Million Incentives**

4,442 EV Rebates  
48 Public EV

### Energy Efficiency



**\$51.6 Million Invested**

1,836 Projects

### Other Climate Investment



**\$3.18 Million Invested**

10.23 Million  
Returned to Ratepayers

## In-district Cap and Trade fund distribution:

District 20, Bill Quirk					
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	\$ 3,183,000	14,411	2	-	\$ -
Clean Vehicle Rebate Project	\$ 3,965,571	85,392	1,732	890	\$ 2,055,035
Hybrid and Zero-Emission Truck and Bus Voucher Incentive Project (HVIP)	\$ 120,890	285	5	5	\$ 120,890
Increased Incentives for Public Fleets Pilot Project in Disadvantaged Communities	\$ 10,500	19	2	2	\$ 10,500
Low Carbon Transit Operations Program	\$ 1,630,316	-	2	2	\$ 1,630,316
Single-Family Solar Photovoltaics (PV)	\$ 15,105	-	1	1	\$ 15,105
Single-Family/Small Multi-Family Energy Efficiency and Solar Water Heating	\$ 1,583	-	2	2	\$ 1,583
<b>Grand Total</b>	<b>\$ 8,926,965</b>	<b>100,107</b>	<b>1,746</b>	<b>902</b>	<b>\$ 3,833,429</b>

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>